A National Study of Resource-Based Relative Value Scales for Physician Services

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CPT-4 Codes and Modifiers for Which Extrapolated Work Is Not Reported

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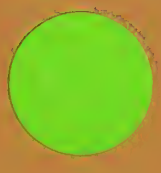

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A NATIONAL STUDY OF RESOURCE-BASED RELATIVE VALUE SCALES FOR PHYSICIAN SERVICES

FINAL REPORT: Phase I (Vol 7)

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Appendix K

Construction of the analytical files

It is common practice, in working with survey data, to exclude from analysis extreme outliers; that is, data that are very different from the bulk of the data as discussed in section 4.4.2. The purpose of this exclusion is to avoid having a small amount of data exert heavy influence on results of statistical analysis. Two types of outlier exclusions can be made: individual variables for particular observations may be treated as missing values in the analysis, or entire observations may be excluded. In the case of our analysis, we made both types of exclusions. In this section, we precisely describe the algorithms we used to determine which data would be excluded, and we examine the extent of the exclusions.

Exclusions were based on six variables representing physicians' ratings of work and its components: work, time, intensity, and the three dimensions of intensity, which are technical skill and physical effort, stress due to risk, and mental effort and judgment. Exclusions were identified in a two-step process, the first step of which was to designate particular variables to be treated as missing for particular observations. In the other step, we identified physicians, none of whose ratings would be used in our analysis.

Step One entails iterative exclusion of ratings that are more than three standard deviations from the mean rating of a

task for a given specialty. For each rating (R) of each variable (i), we computed the common logarithm (L). Where R_i was zero, we set L_i to zero, since the logarithm of zero is undefined. For the first iteration, we designated as outliers all L_i such that the absolute value of the difference between L_i and $M1_i$ was more than $SD1_i$ times three, where $M1_i$ and $SD1_i$ are the mean and the standard deviation of the L_i for a specialty. In the second iteration, we recomputed the mean ($M2_i$), and the standard deviation ($SD2_i$), omitting from the calculation those L_i that were designated as outliers in the first iteration. The L_i were designated as outliers if the absolute value of the difference between L_i and $M2_i$ was more than $SD2_i$, and were set to missing values in all subsequent analyses, including the next step of the exclusion process.

In Step Two, all the data gathered from a physician was eliminated from further analysis if over half of that physician's ratings of work for all services except the reference service, were missing. No differentiation was made in Steps One and Two between ratings missing in the original data and ratings set to missing because they were designated as outliers in Step One of the exclusion process. Tables K.1 through K.6 show the number of ratings, by specialty and service, that were set to missing in Step One and were among those that were not eliminated in Step Two. Since there are 42,798 service-physician combinations, the 392 outliers for work represent 0.92 percent of total data points

for work. Ratings of time were less frequently treated as outliers: 369 data points, or 0.82 percent of the total (44,775 ratings: time ratings were given for the reference procedures). The percent of work ratings set to missing ranged from 0.3 percent for allergy and immunology to 1.6 percent for urology.

A total of 2,894 or 1.1 percent of ratings for work, time, intensity, and the three dimensions of intensity were set to missing in Step One; 2,266 in the first iteration, and 628 in the second iteration. In the remaining data, all but 137 of the ratings were within three standard deviations of the means of the remaining data.

In Step Two, data from 48 physicians was eliminated from further analyses. Table K.7 shows the number of those eliminated by specialty. Obstetrics and gynecology have the highest number of physicians whose data were excluded because those physicians who do not do obstetrical procedures tended to have missing work ratings for those procedures. The ophthalmological services we surveyed included some highly specialized procedures. The other specialties had data from one to five physicians eliminated from further analysis.

Of the 2,894 ratings treated as outliers in Step One, 306 were from 1 of the 48 physicians whose data were eliminated in Step Two. Of 470 work ratings treated as outliers, 78 were from physicians whose data were eliminated. Table K.8 through K.13 show the number of observations, geometric means and approximate

percent standard errors for the original data and the edited data, by specialty.[1]

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[1]The geometric mean is the antilogarithm of the mean of the logarithms of the ratings. The approximate percent standard error is the antilogarithm of the ratio of the standard deviation of the logarithms of the ratings to the square root of the number of observations, less one, multiplied by 100.

Table K.1

Number of ratings of work that were treated as outliers in the analytic files

	Task																									
Specialty	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	SUM
Allergy & Immunology	1	0	0	0	1	0	0	1	0	0	1	0	0	0	1	0	0	2	.	.	.	.	.	.	.	.	7
Anesthesiology	0	0	0	0	4	3	0	2	4	0	1	1	1	3	0	0	3	0	1	0	0	0	.	.	.	.	23
Dermatology	1	1	0	1	0	0	1	0	1	2	1	3	0	2	1	1	0	0	1	0	1	.	.	.	.	.	17
Family Practice	2	1	1	0	2	1	0	1	0	0	0	1	0	0	3	1	2	0	1	3	2	1	0	0	0	.	22
General Surgery	3	2	0	1	0	0	2	1	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	.	14
Internal Medicine	0	0	0	0	2	3	1	0	1	2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	.	.	12
Oral & Max. Surgery	0	2	1	1	3	0	1	0	1	4	0	2	0	0	1	0	0	1	0	1	0	0	0	.	.	.	18
Obstetrics & Gynecology	0	0	0	0	1	2	3	3	0	1	0	0	0	1	1	2	1	1	2	1	2	0	0	0	0	1	22
Ophthalmology	1	0	1	1	3	2	1	1	4	2	4	3	2	1	2	0	1	0	2	0	1	.	.	.	.	.	32
Orthopedic Surgery	2	1	4	3	1	2	1	0	0	0	1	2	2	2	1	0	0	0	2	0	1	.	.	.	.	.	25
Otolaryngology	4	1	1	1	1	2	3	3	0	1	1	4	0	1	1	0	1	1	0	1	2	.	.	.	.	.	29
Pathology	2	5	2	0	0	0	1	0	0	2	2	0	0	1	2	0	1	0	.	.	.	.	.	.	.	.	18
Pediatrics	1	2	0	1	1	0	0	2	1	0	0	0	1	0	1	0	0	1	1	0	1	.	.	.	.	.	13
Psychiatry	1	0	5	1	1	1	2	2	0	2	3	0	0	1	1	0	1	0	1	0	2	1	1	0	.	.	26
Radiology	3	2	1	1	0	2	0	3	2	0	1	2	2	1	2	0	1	2	1	2	0	.	.	.	.	.	28
Rheumatology	2	1	0	0	1	2	0	0	2	1	0	0	1	1	2	1	1	3	.	.	.	.	.	.	.	.	18
Thoracic Surgery	3	0	0	5	0	1	0	4	2	3	0	0	0	0	3	1	0	0	2	4	1	.	.	.	.	.	29
Urology	0	6	3	3	2	2	1	1	5	1	1	0	2	2	1	0	5	0	2	2	0	.	.	.	.	.	39
TOTAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	392

NOTE: This table does not include ratings from the 48 physicians all of whose data was excluded from analysis.

Table K.2

Number of ratings of time that were treated as outliers in the analytic files

	Task																										
Specialty	*	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	SUM
Allergy & Immunology	0	0	0	0	0	1	0	0	1	1	0	1	1	1	1	3	0	0	1	.	.	.	.	.	.	.	.	11
Anesthesiology	2	2	1	1	3	0	2	2	1	1	1	2	2	3	4	2	1	2	0	2	3	3	0	.	.	.	.	40
Dermatology	0	0	0	1	1	2	1	0	0	0	1	0	1	0	2	0	1	1	1	0	1	1	.	.	.	.	.	14
Family Practice	3	1	2	2	0	0	3	0	0	0	0	0	1	2	2	3	1	0	1	1	0	1	0	2	2	1	.	28
General Surgery	2	1	1	0	0	3	0	0	0	2	0	2	1	0	0	0	0	1	0	0	3	0	1	1	1	1	.	20
Internal Medicine	2	1	0	1	2	0	0	1	0	4	0	0	2	0	1	3	2	0	1	1	1	1	0	0	0	.	.	23
Oral & Max. Surgery	2	2	1	0	1	4	0	0	0	1	1	3	0	4	0	0	0	2	0	1	2	1	2	1	.	.	.	28
Obstetrics & Gynecology	0	0	0	1	3	0	0	0	0	0	0	1	1	2	0	0	1	1	0	1	0	0	1	0	1	1	0	14
Ophthalmology	2	1	1	3	1	1	0	1	0	0	1	0	2	0	0	2	0	0	1	1	1	0	.	.	.	.	.	18
Orthopedic Surgery	1	0	3	1	1	0	2	2	0	0	1	0	1	0	0	0	0	0	0	1	1	0	.	.	.	.	.	14
Otolaryngology	0	3	0	0	1	0	2	0	1	2	0	3	2	2	0	1	0	1	3	3	1	1	.	.	.	.	.	26
Pathology	0	1	2	1	0	0	1	2	1	0	1	2	1	1	0	0	0	0	0	.	.	.	.	.	.	.	.	13
Pediatrics	1	1	2	0	0	1	1	1	2	1	0	0	0	0	0	0	0	1	0	2	1	3	.	.	.	.	.	17
Psychiatry	3	2	2	1	1	0	0	7	2	1	1	0	0	0	1	0	1	1	2	1	1	6	1	1	0	.	.	35
Radiology	0	2	0	0	0	0	2	0	0	0	0	0	0	1	3	0	0	0	0	1	0	0	.	.	.	.	.	9
Rheumatology	5	2	0	2	1	2	4	3	4	2	0	0	0	0	2	4	0	0	0	.	.	.	.	.	.	.	.	31
Thoracic Surgery	0	0	0	1	1	0	0	1	1	1	1	0	0	0	1	1	0	0	2	0	0	1	.	.	.	.	.	11
Urology	0	3	1	0	0	0	2	1	0	0	1	0	0	1	2	0	1	2	0	0	1	0	.	.	.	.	.	15
TOTAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	367

Table K.3

Number of ratings of technical skill and physical effort that were treated as outliers in the analytic files

	Task																									
Specialty	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Sum
Allergy & Immunology	3	3	4	4	0	0	0	3	0	0	1	1	3	0	2	2	4	1	.	.	.	.	.	.	.	.	31
Anesthesiology	0	3	0	0	4	3	3	1	1	1	0	2	0	5	1	1	0	1	1	1	1	7	.	.	.	.	36
Dermatology	1	2	3	1	3	1	4	1	1	4	2	2	1	1	2	5	0	5	3	3	0	.	.	.	.	.	45
Family Practice	1	1	2	0	1	2	0	1	0	1	1	3	3	3	3	2	1	4	1	4	3	3	3	2	4	.	49
General Surgery	2	1	0	2	1	0	3	1	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	.	16
Internal Medicine	0	2	0	1	2	2	0	1	1	0	0	0	0	1	0	1	0	1	1	1	1	0	0	0	.	.	15
Oral & Max. Surgery	1	0	1	0	1	1	1	1	0	0	2	3	1	0	0	0	0	5	3	1	0	0	0	.	.	.	21
Obstetrics & Gynecology	0	0	1	0	1	2	2	2	2	1	1	0	0	1	1	0	2	0	2	2	0	0	1	0	0	2	23
Ophthalmology	1	1	2	2	1	4	1	2	2	3	4	3	1	0	2	0	1	0	1	0	1	.	.	.	.	.	32
Orthopedic Surgery	1	0	2	2	1	1	1	4	2	1	0	0	1	0	1	0	0	0	1	0	0	.	.	.	.	.	18
Otolaryngology	2	0	1	0	0	1	2	1	1	0	0	3	1	0	2	0	2	1	1	2	0	.	.	.	.	.	20
Pathology	1	0	3	0	1	0	2	3	0	1	3	0	1	2	1	0	0	1	.	.	.	.	.	.	.	.	19
Pediatrics	2	1	0	0	1	0	2	1	0	5	1	0	2	1	6	1	0	3	1	7	2	.	.	.	.	.	36
Psychiatry	0	1	8	1	0	2	1	3	1	1	1	0	0	1	2	1	0	2	1	1	1	0	1	0	.	.	29
Radiology	1	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	2	1	0	0	.	.	.	.	.	10
Rheumatology	0	4	1	0	0	2	1	1	0	0	0	3	0	0	1	0	0	0	.	.	.	.	.	.	.	.	13
Thoracic Surgery	2	2	0	1	0	0	3	2	1	2	0	1	2	0	1	1	2	1	2	3	0	.	.	.	.	.	26
Urology	1	0	2	3	4	4	3	1	7	3	1	1	2	2	5	1	2	0	4	0	0	.	.	.	.	.	46
TOTAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	485

Table K.4

Number of ratings of risk that were treated as outliers in the analytic files

	Task																									
Specialty	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Sum
Allergy & Immunology	2	4	4	3	2	2	0	0	0	0	1	1	1	0	2	3	2	1	.	.	.	.	.	.	.	.	28
Anesthesiology	1	3	1	1	2	1	1	0	1	3	2	2	2	3	1	1	0	0	2	1	0	0	.	.	.	.	28
Dermatology	3	2	1	1	2	1	3	4	0	0	0	1	2	0	4	0	0	0	0	0	1	.	.	.	.	.	25
Family Practice	3	1	3	0	1	3	0	0	0	3	2	2	2	2	2	2	3	4	3	3	3	1	4	1	3	.	51
General Surgery	1	0	0	0	1	0	2	2	0	0	1	3	0	1	3	3	0	0	3	3	0	3	2	0	0	.	28
Internal Medicine	0	1	1	1	0	0	0	0	0	1	0	0	1	0	0	4	1	0	0	1	2	0	1	0	.	.	14
Oral & Max. Surgery	0	0	4	5	1	0	1	1	1	2	1	1	0	1	0	0	2	2	2	1	0	0	0	.	.	.	25
Obstetrics & Gynecology	0	1	1	1	1	1	0	0	0	2	2	2	0	0	1	2	0	1	0	2	1	1	0	2	0	1	22
Ophthalmology	0	3	3	3	3	0	3	1	1	1	3	2	0	1	3	1	1	3	2	1	2	.	.	.	.	.	37
Orthopedic Surgery	3	0	2	2	1	1	0	1	1	1	2	0	2	2	1	0	0	0	1	0	1	.	.	.	.	.	21
Otolaryngology	0	0	1	0	0	0	2	1	0	1	0	2	1	0	1	0	0	0	1	1	3	.	.	.	.	.	14
Pathology	1	0	2	0	1	2	2	2	2	3	2	2	2	2	4	2	2	1	.	.	.	.	.	.	.	.	32
Pediatrics	2	4	3	3	2	3	1	1	4	1	2	4	1	1	2	1	2	3	1	0	2	.	.	.	.	.	43
Psychiatry	2	0	6	1	1	0	0	2	4	1	1	1	1	3	0	0	3	2	1	0	2	0	2	2	.	.	35
Radiology	5	0	2	1	3	3	3	3	1	1	0	2	2	1	1	1	3	1	2	0	0	.	.	.	.	.	35
Rheumatology	1	0	0	2	3	1	2	2	3	1	0	2	3	2	2	3	0	1	.	.	.	.	.	.	.	.	28
Thoracic Surgery	1	1	0	3	0	0	0	2	2	0	0	1	3	0	3	2	2	2	2	1	0	.	.	.	.	.	25
Urology	0	0	2	1	0	3	2	0	5	3	0	0	0	0	3	1	2	2	3	0	2	.	.	.	.	.	29
TOTAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	520

Table K.5

Number of ratings of mental effort and judgment that were treated as outliers in the analytic files

	Task																									
Specialty	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Sum
Allergy & Immunology	1	5	1	1	1	0	0	0	0	0	0	1	1	0	0	2	1	0	.	.	.	.	.	.	.	.	14
Anesthesiology	0	6	0	1	2	2	0	0	1	1	0	4	1	1	2	0	0	1	1	0	0	0	.	.	.	.	23
Dermatology	1	1	0	1	1	1	3	1	0	1	0	1	0	2	2	1	0	0	0	0	0	.	.	.	.	.	16
Family Practice	1	0	2	0	2	3	0	1	0	0	2	1	2	3	3	1	1	1	2	5	2	0	4	0	1	.	37
General Surgery	2	0	0	1	0	0	2	1	0	1	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	.	13
Internal Medicine	0	2	1	1	1	1	1	1	0	2	0	1	1	0	0	1	0	1	0	1	0	0	1	0	.	.	16
Oral & Max. Surgery	0	0	1	1	2	0	2	1	2	1	0	1	1	2	0	1	0	0	0	0	0	0	0	.	.	.	15
Obstetrics & Gynecology	0	0	1	0	1	1	1	1	0	1	0	2	1	0	0	0	1	0	1	1	4	0	0	0	0	0	16
Ophthalmology	1	0	1	2	3	0	0	0	3	4	5	4	1	1	3	0	2	0	1	0	2	.	.	.	.	.	33
Orthopedic Surgery	1	0	1	1	1	0	0	0	0	0	0	2	1	0	1	0	0	0	1	0	1	.	.	.	.	.	10
Otolaryngology	3	0	0	2	4	1	2	1	0	0	0	1	1	0	1	1	1	1	1	3	1	.	.	.	.	.	24
Pathology	1	2	1	0	1	1	2	2	2	1	2	3	1	1	3	1	1	1	.	.	.	.	.	.	.	.	26
Pediatrics	2	3	0	0	1	1	4	1	1	0	0	0	0	2	2	0	2	2	0	1	0	.	.	.	.	.	22
Psychiatry	0	1	11	1	0	0	2	2	1	1	2	0	0	2	2	0	1	0	1	0	3	0	0	0	.	.	30
Radiology	2	3	2	2	1	2	1	1	2	2	0	1	3	0	1	0	1	0	0	3	1	.	.	.	.	.	28
Rheumatology	1	0	1	1	1	1	1	1	1	1	1	0	1	5	1	0	0	1	.	.	.	.	.	.	.	.	18
Thoracic Surgery	1	1	0	2	1	2	1	1	1	0	1	2	0	1	1	1	0	0	2	2	2	.	.	.	.	.	22
Urology	1	1	1	0	3	1	0	2	9	0	0	0	0	0	0	3	0	0	1	0	1	.	.	.	.	.	23
TOTAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	386

Table K.6

Number of ratings of intensity that were treated as outliers in the analytic files

	Task																									
Specialty	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Sum
Allergy & Immunology	1	2	1	1	1	0	0	0	0	0	0	1	1	1	0	1	1	2	.	.	.	.	.	.	.	.	13
Anesthesiology	1	1	0	0	3	3	2	1	2	1	1	4	1	0	1	0	1	0	2	1	0	0	.	.	.	.	25
Dermatology	1	3	1	0	0	1	5	0	0	0	0	3	1	1	0	1	0	0	1	1	0	.	.	.	.	.	19
Family Practice	1	1	0	0	1	2	0	0	0	0	2	3	2	3	1	1	2	0	0	4	1	0	4	0	1	.	29
General Surgery	2	1	0	0	0	0	2	2	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	1	.	14
Internal Medicine	0	1	1	1	2	1	1	1	2	3	1	1	0	1	0	1	1	0	0	1	0	0	2	0	.	.	21
Oral & Max. Surgery	0	2	2	1	3	2	3	1	0	0	0	1	1	1	1	1	0	0	1	0	0	0	1	.	.	.	21
Obstetrics & Gynecology	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	1	0	1	0	0	7
Ophthalmology	0	1	2	3	3	1	2	2	3	3	4	4	3	3	3	0	1	1	2	2	3	.	.	.	.	.	46
Orthopedic Surgery	2	0	1	2	1	1	2	1	1	0	1	0	1	1	1	1	1	0	1	1	1	.	.	.	.	.	20
Otolaryngology	2	0	0	0	0	3	0	3	0	1	0	3	2	0	0	0	1	3	0	3	1	.	.	.	.	.	22
Pathology	2	2	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	.	.	.	.	.	.	.	.	13
Pediatrics	0	1	2	2	2	3	3	2	3	3	3	2	1	4	3	0	4	3	2	0	3	.	.	.	.	.	46
Psychiatry	0	2	11	1	0	0	3	1	0	0	1	1	0	1	1	0	1	0	1	0	1	0	0	1	.	.	26
Radiology	3	0	1	4	2	2	1	2	2	0	0	3	4	1	1	0	1	3	3	2	2	.	.	.	.	.	37
Rheumatology	0	0	1	1	0	1	0	2	2	3	1	2	1	2	3	0	0	1	.	.	.	.	.	.	.	.	20
Thoracic Surgery	3	1	0	4	0	1	1	3	3	0	1	1	0	0	2	0	1	0	2	3	1	.	.	.	.	.	27
Urology	0	2	3	1	0	4	1	0	7	1	0	1	0	1	3	0	2	0	2	1	3	.	.	.	.	.	32
TOTAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	438

Table K.7

Number of physicians whose data were excluded from the analytic files

Specialty	Exclusions
Allergy & Immunology	1
General Surgery	2
Internal Medicine	2
Oral and Maxillofacial Surgery	1
Obstetrics & Gynecology	11
Ophthalmology	7
Orthopedic Surgery	2
Otolaryngology	3
Pathology	4
Pediatrics	2
Psychiatry	4
Radiology	3
Rheumatology	1
Thoracic/Cardiovascular Surgery	5

Table K.8

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Allergy and immunology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	113	15.1	3.6	112	15.2	3.6
A	103	49.8	9.6	103	49.8	9.6
B	109	15.5	3.9	108	15.5	3.9
C	100	23.7	7.0	100	23.7	7.0
D	102	21.5	7.0	102	21.5	7.0
E	105	69.6	4.8	104	70.6	4.6
F	112	57.0	3.6	111	56.7	3.6
G	99	7.8	10.0	99	7.8	10.0
H	113	8.8	7.4	111	8.8	6.8
I	39	19.4	8.7	38	20.4	7.1
J	56	51.6	12.3	56	51.6	12.3
K	105	18.4	7.9	103	19.0	7.4
L	110	57.9	5.3	108	60.3	3.8
M	100	22.2	8.3	99	22.9	7.7
N	113	56.7	3.9	111	57.5	3.7
O	113	24.6	4.6	109	24.7	3.5
P	112	37.1	3.7	111	37.0	3.7
Q	87	6.7	8.9	86	6.9	8.7
R	100	75.5	4.8	99	76.7	4.5

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Anesthesiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	116	64.4	2.9	114	64.6	2.4
A	83	248.6	6.1	81	266.2	3.0
B	117	29.5	3.9	116	29.2	3.7
C	117	144.3	3.5	116	146.8	3.1
D	116	185.3	5.0	113	192.8	3.2
E	113	45.3	3.9	113	45.3	3.9
F	117	95.8	3.6	115	98.7	2.9
G	115	173.2	4.5	113	182.5	2.3
H	101	29.5	5.0	100	30.2	4.5
I	116	76.8	3.6	115	77.9	3.4
J	116	114.3	3.3	115	116.1	3.0
K	112	233.0	3.4	110	240.1	2.7
L	117	25.7	3.9	115	25.2	3.6
M	111	71.6	4.9	108	75.9	3.1
N	99	54.2	5.3	95	52.5	4.2
O	117	81.2	3.1	115	83.2	2.6
P	115	129.8	2.9	114	131.5	2.6
Q	109	59.2	5.3	107	61.2	4.8
R	114	35.5	4.6	114	35.5	4.6
S	117	119.2	3.1	115	122.2	2.4
T	100	219.8	7.1	97	242.5	3.5
U	112	81.6	3.0	109	80.8	2.4
V	107	37.1	4.4	107	37.1	4.4

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Dermatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	104	10.3	5.1	104	10.3	5.1
A	104	21.1	5.6	104	21.1	5.6
B	100	7.0	9.1	100	7.0	9.1
C	105	19.3	3.9	104	19.6	3.8
D	91	9.9	6.5	90	10.1	6.0
E	105	17.1	5.3	103	17.8	4.3
F	102	4.0	10.4	101	3.9	9.8
G	105	8.7	5.1	105	8.7	5.1
H	101	7.8	5.8	101	7.8	5.8
I	27	16.6	13.8	27	16.6	13.8
J	105	19.1	4.3	104	19.3	4.2
K	47	9.6	12.3	47	9.6	12.3
L	103	10.5	7.0	102	10.8	6.7
M	100	17.0	6.5	100	17.0	6.5
N	96	31.7	5.5	94	32.8	4.9
O	99	7.5	7.5	99	7.5	7.5
P	103	35.6	5.4	102	36.2	5.0
Q	21	10.6	18.0	20	12.0	12.9
R	105	23.3	4.9	104	23.6	4.7
S	55	13.4	9.9	55	13.4	9.9
T	105	25.8	4.4	104	26.3	4.1
U	96	26.5	7.3	95	27.1	7.0

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Family practice

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	110	13.2	2.5	107	13.3	2.1
A	108	44.5	4.7	107	45.2	4.5
B	109	9.4	5.4	107	9.2	3.7
C	109	21.9	4.3	107	22.5	3.9
D	42	50.1	6.9	42	50.1	6.9
E	92	19.9	3.8	92	19.9	3.8
F	104	18.6	4.5	101	19.4	3.7
G	32	95.3	6.8	32	95.3	6.8
H	68	58.1	8.2	68	58.1	8.2
I	102	4.9	6.7	102	4.9	6.7
J	107	8.0	7.2	107	8.0	7.2
K	81	43.0	4.1	81	43.0	4.1
L	110	11.7	3.7	109	11.6	3.6
M	110	11.0	4.2	108	11.3	3.7
N	110	19.9	3.8	108	20.4	3.4
O	110	16.3	3.3	107	16.1	2.7
P	110	24.6	3.5	109	24.3	3.3
Q	110	21.7	3.4	110	21.7	3.4
R	105	16.2	5.5	104	16.4	5.3
S	105	30.0	4.6	104	30.6	4.3
T	107	56.8	4.5	107	56.8	4.5
U	106	37.0	4.4	105	37.7	4.0
V	106	46.6	4.3	106	46.6	4.3
W	108	17.3	3.6	106	16.9	3.3
X	109	8.8	5.9	107	9.2	5.2
Y	100	12.1	5.4	99	11.9	5.2

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: General surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	103	40.4	5.0	99	41.3	3.3
A	74	233.2	7.1	71	247.0	3.5
B	100	14.3	5.8	97	14.7	5.6
C	34	17.6	7.5	32	17.6	7.9
D	104	103.8	3.3	102	102.8	3.3
E	98	20.0	8.0	93	20.6	7.0
F	32	29.3	7.4	32	29.3	7.4
G	104	153.4	2.5	102	152.1	2.5
H	104	35.6	5.4	102	36.7	4.0
I	103	11.7	5.7	99	12.2	5.2
J	55	56.4	6.5	53	55.6	6.6
K	104	64.8	3.7	100	64.1	3.3
L	58	80.3	8.9	56	86.2	3.8
M	59	30.8	5.6	57	30.2	5.6
N	79	26.1	6.6	77	26.2	6.8
O	86	46.0	6.0	84	45.9	6.1
P	73	34.2	5.1	71	33.6	5.1
Q	104	13.3	5.2	101	12.8	4.6
R	104	16.3	4.3	102	16.0	4.2
S	103	26.4	4.0	101	26.0	3.9
T	102	38.3	6.7	97	37.6	4.6
U	104	11.2	4.6	102	11.0	4.5
V	96	60.8	6.5	93	62.0	6.0
W	104	41.5	5.5	101	42.4	3.9
X	74	29.8	6.0	71	30.1	5.5
Y	95	71.2	5.8	92	72.5	5.5

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Internal medicine

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	102	15.4	3.4	99	15.6	2.7
A	102	64.5	4.9	100	65.7	4.4
B	102	13.8	4.0	101	13.8	4.1
C	92	15.0	6.2	91	14.7	5.9
D	90	18.6	5.5	87	18.7	4.9
E	85	6.3	7.9	84	6.2	7.9
F	102	35.0	4.7	101	35.2	4.7
G	101	57.0	4.2	100	57.9	4.0
H	101	12.3	4.5	100	12.4	4.5
I	101	17.8	3.6	97	17.3	2.6
J	101	29.0	3.8	101	29.0	3.8
K	102	38.0	4.0	101	37.8	4.0
L	100	26.9	4.1	97	26.0	3.6
M	101	51.7	4.4	101	51.7	4.4
N	101	17.9	3.8	100	17.6	3.6
O	102	17.7	4.0	98	18.0	3.5
P	93	15.7	4.4	91	15.2	3.7
Q	94	37.4	4.3	94	37.4	4.3
R	101	48.1	3.4	100	48.7	3.2
S	102	25.5	5.0	100	26.0	4.8
T	102	33.7	3.9	100	33.9	3.7
U	101	8.1	8.0	99	7.8	7.6
V	102	8.0	5.0	101	7.9	4.9
W	101	12.7	5.1	101	12.7	5.1
X	97	14.9	5.5	95	14.3	4.9

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Oral and maxillofacial surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	116	24.6	3.8	113	25.2	3.6
A	113	240.5	4.6	110	252.8	3.1
B	116	16.3	4.4	115	16.6	4.1
C	115	41.6	3.4	115	41.6	3.4
D	115	49.0	3.6	114	49.5	3.5
E	108	28.3	5.2	104	29.3	4.2
F	110	13.2	6.7	110	13.2	6.7
G	116	31.7	4.7	116	31.7	4.7
H	116	10.0	7.6	116	10.0	7.6
I	113	136.1	3.3	111	139.0	3.0
J	117	16.6	5.1	115	16.3	5.0
K	113	43.6	4.6	109	41.6	3.9
L	117	18.5	4.5	116	18.5	4.5
M	92	41.5	6.3	88	45.3	4.5
N	108	15.1	6.6	108	15.1	6.6
O	105	52.0	4.2	104	52.1	4.3
P	117	64.3	3.2	116	64.4	3.2
Q	115	125.0	4.5	112	130.2	2.9
R	116	7.9	7.7	116	7.9	7.7
S	96	21.5	7.3	94	22.3	6.6
T	115	116.2	5.4	112	121.9	4.0
U	52	48.9	6.0	51	50.5	5.2
V	93	96.9	4.1	91	99.4	3.7
W	101	112.6	3.2	99	114.9	2.9

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Obstetrics and gynecology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	99	12.8	4.5	88	12.7	4.8
A	99	27.7	3.6	88	27.3	3.8
B	90	10.1	4.6	89	10.1	4.7
C	90	33.6	4.2	88	34.2	4.0
D	89	17.0	4.4	86	16.8	3.7
E	85	94.4	12.6	85	94.4	12.6
F	85	180.2	12.4	85	180.2	12.4
G	86	133.4	10.9	86	133.4	10.9
H	80	217.3	12.2	80	217.3	12.2
I	99	52.4	3.9	88	53.1	4.1
J	98	88.6	3.3	87	89.8	3.5
K	99	17.8	3.5	87	18.2	3.1
L	99	23.4	3.6	87	23.2	3.2
M	88	42.5	7.3	86	40.3	6.3
N	93	26.3	3.9	83	27.2	3.6
O	92	29.9	4.7	82	30.8	4.7
P	90	15.9	3.4	88	16.1	3.2
Q	90	50.9	3.8	88	51.5	3.6
R	58	32.8	4.8	58	32.8	4.8
S	71	19.7	6.8	70	20.3	6.3
T	89	6.5	8.5	89	6.5	8.5
U	100	27.6	4.0	89	27.6	4.2
V	99	104.1	3.2	87	106.9	3.3
W	52	19.4	6.5	50	19.9	6.1
X	99	39.9	3.3	87	40.7	3.2
Y	28	30.4	10.0	27	32.5	7.3
Z	88	27.6	4.4	86	28.2	4.2

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Ophthalmology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	104	13.0	5.2	95	13.6	4.6
A	68	100.6	4.5	65	103.7	3.9
B	105	14.5	4.6	97	14.6	4.2
C	105	27.8	4.9	95	27.9	3.9
D	104	51.7	5.0	96	52.2	5.0
E	101	38.3	4.3	94	39.1	4.2
F	103	9.1	8.1	96	9.0	8.5
G	92	16.2	5.4	89	16.5	5.0
H	70	19.5	6.0	70	19.5	6.0
I	85	71.5	4.5	82	72.4	4.6
J	103	52.3	3.5	96	53.4	3.5
K	99	50.5	3.6	96	51.0	3.7
L	100	48.8	4.3	92	50.8	4.0
M	58	96.5	5.2	58	96.5	5.2
N	70	70.7	7.2	70	70.7	7.2
O	89	50.6	6.3	84	54.0	5.2
P	83	9.9	7.2	82	10.0	7.2
Q	70	33.5	8.0	69	33.7	8.0
R	54	13.4	8.4	53	13.0	7.7
S	104	12.3	6.0	97	11.9	5.7
T	36	29.5	9.9	35	31.0	8.6
U	92	45.0	5.4	87	45.5	5.6

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Orthopedic surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	106	27.4	3.8	104	27.2	3.7
A	105	128.4	2.9	105	128.4	2.9
B	105	10.5	5.8	102	10.3	5.1
C	104	55.1	3.3	103	56.0	3.0
D	103	64.6	4.0	102	65.5	3.8
E	82	87.2	3.5	82	87.2	3.5
F	106	68.5	6.5	104	73.6	4.0
G	100	53.5	6.3	96	56.5	4.5
H	99	30.1	3.6	98	30.0	3.6
I	103	29.1	4.0	103	29.1	4.0
J	101	49.9	7.8	100	51.9	6.7
K	106	16.5	3.5	106	16.5	3.5
L	104	6.8	7.1	103	6.7	6.8
M	105	9.7	10.1	103	9.7	10.3
N	106	23.0	3.8	105	22.9	3.8
O	108	7.5	9.3	106	7.6	9.4
P	107	4.7	7.8	105	4.8	7.8
Q	107	5.1	7.9	106	5.1	7.9
R	107	11.5	5.4	106	11.5	5.4
S	67	33.8	9.1	66	35.0	8.3
T	81	151.7	3.0	80	153.4	2.8
U	107	5.4	7.4	106	5.4	7.4

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Otolaryngology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	108	29.9	3.9	105	30.0	4.0
A	100	240.6	6.8	96	264.4	3.1
B	106	12.3	3.7	105	12.4	3.6
C	106	27.6	5.1	104	27.6	5.2
D	108	14.0	5.5	104	14.1	5.3
E	85	28.6	3.9	84	28.6	3.9
F	98	107.3	5.8	95	113.9	2.9
G	106	23.7	4.4	105	23.7	4.4
H	103	176.1	3.0	100	178.0	2.9
I	107	28.6	3.6	103	27.9	3.3
J	106	6.9	7.3	104	6.8	7.4
K	92	12.5	8.3	87	13.0	7.1
L	100	148.1	5.4	97	156.0	2.9
M	106	22.3	8.1	103	23.9	6.9
N	106	21.9	3.5	105	21.9	3.6
O	77	62.7	5.0	75	61.3	4.7
P	16	158.7	9.5	15	155.8	9.9
Q	25	273.6	17.9	23	317.0	6.9
R	105	24.9	5.5	101	26.3	4.4
S	94	33.0	4.8	90	31.5	3.9
T	106	46.8	5.6	104	48.4	4.2
U	104	11.1	6.4	102	11.3	6.0

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Pathology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	118	8.4	5.7	114	8.3	5.7
A	116	63.4	6.0	111	64.2	5.4
B	118	4.4	8.9	112	4.0	7.2
C	118	17.9	6.1	113	17.9	5.7
D	18	14.4	29.2	18	14.4	29.2
E	118	17.1	5.8	114	17.0	5.8
F	93	7.3	8.5	90	7.0	8.0
G	115	15.4	5.6	111	15.6	4.9
H	110	8.6	7.0	107	8.5	6.5
I	118	24.3	6.9	114	24.0	7.0
J	107	25.7	6.7	105	26.1	5.8
K	92	28.0	9.3	88	30.1	7.5
L	118	17.8	5.4	113	17.2	5.2
M	118	29.4	5.2	113	29.4	5.0
N	96	24.9	6.9	94	24.8	6.8
O	118	20.5	5.9	114	20.3	5.9
P	82	6.3	10.3	80	6.1	9.8
Q	118	12.6	5.6	114	12.4	5.5
R	109	9.1	6.1	107	8.9	6.0

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pediatrics

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	105	11.0	3.9	102	10.8	3.7
A	92	32.7	8.7	90	33.8	8.3
B	105	6.8	5.5	101	7.0	4.9
C	105	17.3	3.2	103	17.3	3.3
D	105	18.6	3.4	103	18.6	3.4
E	105	24.1	3.6	102	23.8	3.4
F	103	27.4	3.5	101	27.0	3.4
G	104	45.0	5.7	102	46.2	5.2
H	104	29.3	3.6	101	28.7	3.4
I	105	19.4	4.0	102	19.6	3.9
J	103	7.3	6.1	102	7.3	6.2
K	89	4.7	12.7	88	4.7	12.8
L	104	33.8	4.6	102	33.9	4.7
M	95	6.8	9.3	94	6.8	9.4
N	102	14.1	7.5	101	14.1	7.6
O	103	30.2	3.9	102	30.2	4.0
P	92	20.1	3.7	91	20.1	3.8
Q	91	6.3	7.4	89	6.1	7.2
R	104	9.5	5.8	103	9.5	5.8
S	104	25.5	3.8	100	24.8	3.5
T	105	4.7	4.5	102	4.8	4.4
U	102	11.1	5.8	97	11.7	4.8

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Psychiatry

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	103	43.1	2.8	96	44.3	2.4
A	98	70.7	7.5	96	74.3	6.6
B	100	14.7	5.6	98	14.7	4.9
C	104	45.5	2.0	99	45.9	1.9
D	101	62.2	3.9	98	62.5	3.5
E	97	49.0	6.0	96	48.4	5.9
F	101	21.5	4.0	100	21.5	4.0
G	102	49.6	1.8	91	49.9	1.3
H	102	40.5	3.5	98	41.6	2.8
I	99	55.2	3.3	97	55.5	3.2
J	88	78.8	3.4	87	77.6	3.0
K	90	77.4	2.8	90	77.4	2.8
L	98	60.4	4.0	98	60.4	4.0
M	102	66.4	3.0	99	65.7	2.9
N	103	62.5	3.1	99	61.6	2.8
O	101	29.3	4.0	100	29.1	4.0
P	64	27.5	7.6	63	26.7	6.9
Q	97	146.1	6.1	95	143.3	5.9
R	100	64.6	4.0	96	64.9	3.4
S	104	50.2	2.7	99	50.2	2.6
T	98	66.9	3.5	94	66.8	3.3
U	96	50.7	1.9	87	50.1	1.3
V	98	113.9	6.1	96	115.9	5.8
W	98	65.1	4.4	96	64.4	4.2
X	94	55.4	7.0	94	55.4	7.0

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Radiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	120	17.2	4.6	117	17.1	4.8
A	96	87.2	7.3	92	94.6	4.0
B	120	3.4	6.2	117	3.4	6.3
C	120	5.4	6.0	117	5.3	6.1
D	119	23.8	4.5	117	23.6	4.6
E	108	23.6	5.2	108	23.6	5.2
F	109	16.0	6.0	106	15.5	5.6
G	104	22.5	5.3	104	22.5	5.3
H	91	47.2	3.9	90	47.4	3.9
I	120	3.1	6.7	117	3.1	6.7
J	113	8.1	6.9	112	8.2	6.9
K	49	34.4	9.9	48	35.3	9.7
L	120	5.1	6.8	117	5.1	6.9
M	118	21.7	6.4	115	22.4	5.9
N	113	27.5	5.4	109	27.7	4.2
O	120	4.7	6.8	117	4.7	7.0
P	43	6.5	15.6	43	6.5	15.6
Q	119	5.4	6.7	117	5.4	6.9
R	100	23.8	5.6	99	24.0	5.6
S	106	41.4	4.3	104	42.0	4.2
T	120	4.5	6.8	117	4.5	7.0
U	103	7.3	8.1	102	7.4	8.2

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Rheumatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	118	18.2	3.3	112	17.4	2.5
A	119	69.3	2.9	116	69.0	2.6
B	119	5.2	6.6	118	5.2	6.7
C	118	54.1	2.5	115	54.2	2.4
D	118	58.9	3.1	116	59.6	2.9
E	118	11.7	6.0	115	12.3	5.2
F	101	13.7	7.8	96	15.3	6.0
G	117	8.9	6.3	113	9.4	5.4
H	119	49.4	3.0	114	50.4	2.5
I	118	19.5	3.4	115	19.8	2.9
J	118	27.4	3.1	117	27.5	3.1
K	118	70.3	2.5	117	70.1	2.5
L	71	8.5	11.3	71	8.5	11.3
M	118	22.1	3.4	117	22.2	3.4
N	119	17.4	3.3	116	17.4	3.1
O	118	53.9	2.7	113	54.1	2.2
P	119	2.9	8.3	118	2.9	8.4
Q	119	5.9	6.9	118	5.9	7.0
R	118	2.5	8.4	117	2.5	8.4

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors estimated using unedited data and edited data:
Thoracic and cardiovascular surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	96	46.4	4.3	92	46.3	4.4
A	82	283.6	2.5	80	283.0	2.5
B	98	15.8	5.7	94	15.7	5.9
C	98	8.8	4.9	93	8.7	4.8
D	84	186.3	5.8	81	194.9	2.8
E	86	13.1	5.3	84	12.9	5.2
F	98	36.8	4.6	95	36.9	4.8
G	93	30.0	5.4	89	29.3	5.2
H	97	128.8	3.3	93	130.2	3.3
I	85	166.7	3.5	81	166.9	3.3
J	96	44.1	4.4	92	45.1	4.1
K	95	39.3	4.1	92	38.9	4.2
L	98	25.6	4.4	94	25.6	4.5
M	93	24.1	6.3	91	24.3	6.4
N	91	34.8	4.3	87	35.2	4.2
O	82	89.5	4.7	78	91.5	4.3
P	62	164.7	3.9	60	163.4	4.0
Q	80	92.0	8.8	78	91.9	9.0
R	96	22.2	7.9	90	23.8	6.8
S	92	251.4	2.9	89	250.4	3.0
T	86	182.9	2.8	84	182.3	2.9
U	86	36.8	4.8	83	35.8	4.5

NOTE: N* indicates the number of physicians surveyed.

Table K.8 continued

Intra-service ratings of time.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Urology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
*	115	13.3	6.1	115	13.3	6.1
A	113	295.6	7.1	110	331.2	2.2
B	115	9.5	5.9	114	9.7	5.6
C	115	37.2	3.9	115	37.2	3.9
D	115	23.7	3.5	115	23.7	3.5
E	100	67.6	3.4	100	67.6	3.4
F	113	31.9	3.6	111	32.1	3.1
G	115	26.8	3.9	114	27.2	3.6
H	115	62.2	2.7	115	62.2	2.7
I	111	14.2	5.8	111	14.2	5.8
J	113	29.4	4.3	112	29.9	4.1
K	52	35.8	6.6	52	35.8	6.6
L	85	114.4	4.0	85	114.4	4.0
M	62	64.6	5.1	61	66.2	4.5
N	115	72.9	5.3	113	76.1	4.1
O	114	26.1	3.6	114	26.1	3.6
P	99	29.5	5.4	98	30.1	5.0
Q	115	31.5	4.5	113	31.6	4.1
R	70	15.6	7.5	70	15.6	7.5
S	104	38.0	3.9	104	38.0	3.9
T	71	53.2	6.8	70	56.3	3.5
U	95	41.4	5.3	95	41.4	5.3

NOTE: N* indicates the number of physicians surveyed.

Table K.9

Intra-service ratings of work.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Allergy and immunology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	104	374	6.5	103	382	6.3
B	109	117	5.8	108	117	5.9
C	101	197	6.2	101	197	6.2
D	103	193	6.5	103	193	6.5
E	106	479	5.4	105	490	5.0
F	112	380	5.1	111	376	5.0
G	103	48	9.4	103	48	9.4
H	113	89	7.5	111	93	6.9
I	40	225	13.2	40	225	13.2
J	60	386	11.0	60	386	11.0
K	107	176	8.5	105	182	8.1
L	110	406	5.0	109	404	5.0
M	101	160	6.9	101	160	6.9
N	113	396	5.3	112	393	5.3
O	113	208	5.2	111	213	4.8
P	113	260	5.4	112	259	5.5
Q	89	65	9.7	88	66	9.6
R	101	492	6.2	99	494	5.5

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Anesthesiolog

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	86	669	5.1	86	669	5.1
B	116	76	5.0	116	76	5.0
C	117	268	3.7	117	268	3.7
D	116	314	3.9	116	314	3.9
E	113	132	4.6	109	133	3.8
F	117	212	3.5	114	206	3.1
G	116	305	3.9	116	305	3.9
H	102	134	6.9	100	140	6.3
I	116	113	3.2	112	109	2.7
J	116	243	3.5	116	243	3.5
K	114	526	4.8	113	537	4.3
L	117	69	4.2	116	68	4.0
M	112	152	5.7	111	154	5.5
N	101	182	7.3	98	170	6.2
O	117	181	3.5	117	181	3.5
P	116	358	3.9	116	358	3.9
Q	112	107	3.9	109	106	3.4
R	115	131	5.0	115	131	5.0
S	117	185	3.5	116	184	3.4
T	102	460	4.7	102	460	4.7
U	112	244	3.9	112	244	3.9
V	107	117	5.8	107	117	5.8

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Dermatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	104	357	6.5	103	346	5.6
B	101	143	6.8	100	140	6.5
C	106	225	4.2	106	225	4.2
D	92	110	8.2	91	112	7.8
E	106	201	4.3	106	201	4.3
F	105	81	7.1	105	81	7.1
G	106	98	3.4	105	99	3.2
H	102	83	8.4	102	83	8.4
I	30	213	17.5	29	237	13.5
J	106	209	4.5	104	215	4.1
K	55	115	8.3	54	111	7.6
L	104	195	5.0	101	198	4.3
M	102	371	6.0	102	371	6.0
N	99	572	7.3	97	543	6.2
O	100	136	6.3	99	139	6.1
P	105	341	5.3	104	335	5.1
Q	23	193	16.7	23	193	16.7
R	106	258	4.8	106	258	4.8
S	59	257	11.2	58	242	9.0
T	106	298	4.4	106	298	4.4
U	97	353	6.4	96	361	6.1

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Family practice

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	108	344	4.7	106	345	4.2
B	109	60	5.2	108	61	5.0
C	109	180	5.4	108	183	5.2
D	44	586	11.0	44	586	11.0
E	91	187	5.8	89	188	5.1
F	104	173	5.7	103	177	5.3
G	31	919	13.3	31	919	13.3
H	69	617	10.3	68	592	9.5
I	107	35	7.7	107	35	7.7
J	106	44	8.5	106	44	8.5
K	82	299	5.4	82	299	5.4
L	110	88	4.6	109	90	4.4
M	110	76	5.3	110	76	5.3
N	109	130	4.1	109	130	4.1
O	110	131	4.0	107	136	3.3
P	110	210	4.3	109	216	3.5
Q	110	182	3.8	108	186	3.5
R	105	117	5.7	105	117	5.7
S	106	229	4.7	105	232	4.5
T	107	415	5.5	104	392	4.5
U	106	300	4.8	104	300	4.2
V	106	362	5.2	105	369	4.8
W	108	117	4.2	108	117	4.2
X	108	113	6.9	108	113	6.9
Y	101	92	6.0	101	92	6.0

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: General surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	75	765	9.3	70	683	5.3
B	101	40	7.0	97	39	6.2
C	40	31	10.9	38	30	11.2
D	104	299	5.3	101	294	4.4
E	99	108	7.0	97	103	6.3
F	36	72	7.8	36	72	7.8
G	105	485	6.1	101	442	4.0
H	105	131	4.6	102	124	3.5
I	104	24	6.8	102	23	6.8
J	57	123	10.2	55	115	9.1
K	105	237	5.6	100	227	3.8
L	61	282	8.2	58	253	5.3
M	62	77	6.9	60	77	7.1
N	83	54	9.3	81	54	9.5
O	92	48	11.7	91	47	11.5
P	73	37	11.8	71	35	11.0
Q	104	15	10.2	102	14	9.9
R	104	18	10.9	102	17	10.6
S	104	32	10.6	102	31	10.0
T	103	43	10.3	101	41	9.6
U	103	14	11.0	101	14	10.6
V	98	117	12.9	96	108	11.4
W	105	64	11.4	103	60	10.5
X	75	64	10.2	73	59	8.9
Y	97	142	12.9	95	133	11.9

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Internal medicine

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	102	525	4.6	101	526	4.6
B	102	80	5.8	101	81	5.7
C	93	134	6.7	93	134	6.7
D	90	164	6.4	89	165	6.4
E	87	36	8.6	84	36	7.5
F	102	220	5.8	98	228	4.7
G	101	430	4.7	100	424	4.5
H	101	79	5.4	100	79	5.5
I	101	126	3.7	100	125	3.5
J	101	205	3.9	99	205	3.5
K	102	287	4.2	101	288	4.2
L	101	219	4.4	100	218	4.4
M	101	345	5.6	100	354	4.9
N	101	140	5.1	100	137	4.8
O	102	162	5.0	100	160	4.8
P	93	107	6.1	93	107	6.1
Q	94	267	4.8	94	267	4.8
R	101	333	4.6	101	333	4.6
S	102	155	5.3	101	156	5.3
T	102	162	6.4	101	164	6.3
U	101	65	6.8	100	65	6.9
V	102	64	6.2	101	64	6.3
W	100	151	6.7	100	151	6.7
X	97	105	6.8	95	103	6.8

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Oral and maxillofacial surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	114	2,156	8.5	113	2,197	8.3
B	117	29	7.3	115	29	6.2
C	116	327	5.1	115	322	4.9
D	116	386	5.2	115	381	5.0
E	109	142	6.4	106	134	5.6
F	110	104	8.4	110	104	8.4
G	117	237	6.4	116	241	6.2
H	117	58	6.2	117	58	6.2
I	115	1,270	8.5	113	1,329	7.9
J	118	84	6.3	113	81	5.4
K	115	150	8.3	114	150	8.4
L	118	55	8.1	115	56	7.1
M	96	168	7.4	96	168	7.4
N	110	147	8.4	110	147	8.4
O	106	375	7.7	104	370	7.4
P	118	517	6.7	117	523	6.7
Q	118	1,056	7.4	117	1,071	7.3
R	117	29	7.2	116	29	6.6
S	98	85	8.2	97	85	8.3
T	116	978	8.3	114	1,018	7.8
U	55	649	10.8	55	649	10.8
V	96	698	9.0	96	698	9.0
W	103	1,135	8.9	102	1,154	8.8

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Obstetrics and gynecology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	107	8.6	88	110	9.1
B	89	38	8.8	89	38	8.8
C	89	116	9.1	89	116	9.1
D	89	72	9.7	89	72	9.7
E	89	224	9.6	88	232	9.1
F	89	355	9.2	87	356	8.1
G	89	312	10.2	86	321	8.8
H	89	425	11.0	86	433	8.6
I	99	305	4.7	88	305	5.2
J	99	508	6.1	87	496	6.0
K	99	58	7.8	88	60	8.0
L	99	95	8.7	88	102	8.9
M	89	238	6.9	89	238	6.9
N	93	113	7.4	82	114	7.3
O	92	226	5.8	81	222	5.9
P	90	51	8.9	87	48	7.8
Q	90	363	7.7	88	361	6.9
R	59	150	11.5	58	141	9.6
S	70	129	10.4	68	117	7.5
T	89	41	9.2	88	40	8.6
U	100	88	8.9	87	87	8.4
V	99	544	6.1	88	541	6.7
W	51	139	6.6	49	140	6.7
X	98	138	8.7	88	144	9.1
Y	27	187	9.8	27	187	9.8
Z	88	108	9.8	85	107	9.4

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Ophthalmology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	75	2,705	11.3	71	2,541	10.3
B	105	77	8.9	98	74	8.6
C	105	131	8.8	97	125	7.9
D	105	234	8.0	97	222	7.4
E	101	1,288	9.7	92	1,229	7.5
F	104	86	10.0	95	86	8.6
G	93	149	7.6	90	147	7.4
H	74	210	7.5	73	204	6.9
I	91	1,051	10.5	84	896	6.9
J	102	1,867	10.1	94	1,708	8.5
K	100	1,223	9.4	93	1,056	6.4
L	101	1,442	10.5	92	1,352	7.4
M	63	2,288	11.0	61	2,099	9.1
N	73	1,158	13.6	72	1,095	12.4
O	92	247	8.2	88	233	7.3
P	87	75	9.9	86	76	10.0
Q	76	217	7.6	74	208	6.6
R	58	116	10.2	58	116	10.2
S	104	71	9.9	96	63	8.2
T	40	1,026	18.3	40	1,026	18.3
U	96	620	9.5	90	649	8.6

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Orthopedic surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	106	802	5.4	104	776	4.9
B	106	26	12.1	105	25	11.6
C	106	191	5.6	102	185	4.7
D	103	293	6.2	100	286	5.2
E	87	562	7.6	86	578	7.1
F	107	454	6.3	105	455	5.8
G	103	269	7.4	100	262	6.9
H	100	55	10.4	99	55	10.5
I	104	55	10.6	104	55	10.6
J	104	154	13.1	104	154	13.1
K	107	29	11.3	106	28	10.7
L	105	19	13.5	103	18	12.3
M	106	39	11.1	102	39	9.8
N	107	37	10.3	104	34	9.4
O	108	23	13.8	105	22	13.3
P	107	15	12.3	105	15	12.4
Q	107	16	12.3	106	16	12.4
R	108	24	8.7	107	24	8.8
S	70	78	12.6	68	86	10.7
T	85	759	7.8	85	759	7.8
U	107	18	12.2	105	18	11.7

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Otolaryngology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	102	1,020	6.1	97	972	4.5
B	106	24	8.5	104	23	8.2
C	106	43	8.1	103	43	7.8
D	107	63	4.4	104	61	4.0
E	86	122	5.5	84	123	5.3
F	98	482	6.5	95	454	5.4
G	106	128	5.2	102	124	4.4
H	104	648	4.9	99	636	4.3
I	107	57	9.2	105	57	9.4
J	106	18	9.2	103	18	8.8
K	92	27	10.5	89	26	10.1
L	102	658	6.6	97	655	4.9
M	106	236	6.7	105	234	6.7
N	106	46	9.5	104	44	9.2
O	78	267	5.7	76	255	4.8
	21	689	14.4	19	674	16.0
Q	30	1,052	11.5	27	1,115	9.2
R	105	95	5.8	103	91	5.0
S	96	56	10.7	95	56	10.9
T	106	212	4.4	104	207	4.1
U	106	37	8.1	103	38	7.1

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pathology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	117	1,123	8.5	111	1,075	7.6
B	119	53	8.1	110	48	6.0
C	119	595	9.6	113	520	7.6
	17	269	28.9	17	269	28.9
E	119	299	7.1	115	290	6.8
F	93	164	8.5	91	155	7.7
G	116	342	7.9	113	320	7.0
H	111	178	8.4	109	169	7.6
I	119	539	7.1	115	514	6.5
J	108	536	7.4	105	526	6.4
K	93	550	9.7	89	488	7.7
L	119	381	6.7	115	365	6.5
M	119	536	6.6	115	515	6.4
N	99	443	9.1	96	409	7.9
O	119	511	8.9	113	489	7.3
P	84	151	11.3	82	141	10.1
Q	119	298	7.0	114	279	6.3
R	111	149	7.4	109	143	7.0

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pediatrics

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	91	587	7.4	90	573	7.1
B	104	54	5.1	101	56	4.6
C	104	169	4.1	103	169	4.1
D	104	186	4.4	102	188	4.3
E	104	237	4.8	102	233	4.6
F	102	269	5.1	102	269	5.1
G	103	432	5.1	103	432	5.1
H	103	323	5.6	101	310	4.6
I	104	237	5.0	102	240	4.9
J	102	108	8.3	102	108	8.3
K	90	316	7.0	90	316	7.0
L	103	391	5.2	102	390	5.3
M	94	124	7.4	93	127	7.0
N	101	266	6.2	101	266	6.2
O	102	300	5.0	101	295	4.7
P	92	211	4.9	92	211	4.9
Q	91	63	6.9	91	63	6.9
R	103	97	5.0	102	99	4.8
S	103	264	4.4	101	260	4.3
T	104	59	5.9	103	60	5.9
U	103	149	7.3	101	155	5.9

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Psychiatry

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	287	5.8	98	292	5.6
B	100	55	8.0	100	55	8.0
C	104	96	5.7	95	98	2.3
D	102	171	4.5	99	167	4.2
E	99	125	7.7	97	131	5.8
F	101	57	5.4	99	56	5.0
G	103	102	7.1	97	110	4.1
H	100	92	6.2	96	97	3.6
I	99	144	4.0	98	144	4.0
J	88	175	7.4	86	181	4.9
K	90	158	4.6	87	155	3.8
L	98	191	4.8	98	191	4.8
M	102	176	4.0	99	177	4.0
N	103	174	4.1	99	175	3.8
O	101	72	5.9	99	71	5.6
P	63	100	12.3	63	100	12.3
Q	98	371	5.1	96	365	4.9
R	100	146	5.2	98	147	5.2
S	104	134	6.3	99	140	4.0
T	98	190	4.6	95	191	4.6
U	96	117	6.8	91	121	4.1
V	98	262	6.8	96	272	5.4
W	98	174	4.6	96	171	4.4
X	93	133	6.8	93	133	6.8

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Radiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	823	5.8	94	803	4.6
B	120	29	5.4	115	31	4.8
C	120	41	5.5	116	41	5.1
D	120	155	3.1	116	152	2.9
E	107	171	5.0	107	171	5.0
F	109	173	8.5	106	180	6.0
G	104	198	5.5	104	198	5.5
H	93	350	9.4	89	362	5.5
I	120	24	6.3	115	24	5.7
J	113	84	6.8	112	85	6.8
K	49	261	8.9	47	270	7.8
L	120	41	6.1	115	43	5.0
M	119	117	4.7	115	115	4.2
N	115	177	5.8	113	181	5.5
O	120	39	6.0	115	41	5.2
P	46	54	13.0	46	54	13.0
Q	120	44	5.7	116	45	5.0
R	101	146	6.7	98	155	5.9
S	107	311	5.8	105	302	5.2
T	120	35	6.1	115	35	5.4
U	103	78	8.0	102	80	7.8

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Rheumatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	119	558	5.9	116	570	5.1
B	119	45	7.2	117	43	6.9
C	118	354	5.0	117	347	4.7
D	118	458	5.0	117	450	4.8
E	118	99	6.8	116	99	6.4
F	104	84	8.5	101	88	6.8
G	118	83	7.5	117	82	7.4
H	119	322	5.1	118	316	4.8
I	118	149	4.9	115	154	4.5
J	118	213	4.7	116	213	4.4
K	119	541	5.8	118	532	5.6
L	74	63	11.8	74	63	11.8
M	118	159	4.8	116	161	4.6
N	119	105	5.3	117	105	4.9
O	118	326	4.9	115	330	4.2
P	117	24	8.5	115	25	8.0
Q	119	46	6.7	117	45	6.5
R	117	20	8.9	113	20	7.9

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Thoracic and cardiovascular surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	86	925	7.3	82	860	5.9
B	100	41	5.8	96	41	5.8
C	99	13	11.4	95	12	11.5
D	86	632	8.1	80	612	5.6
E	86	28	13.5	84	27	13.0
F	99	43	11.7	95	43	10.8
G	95	72	8.1	92	70	8.1
H	98	392	8.2	91	385	5.5
I	86	532	10.2	81	513	6.7
J	98	125	8.9	92	118	6.6
K	95	48	11.5	92	46	11.0
L	100	37	8.3	96	37	8.7
M	96	59	9.9	94	59	10.1
N	92	40	12.0	89	39	11.6
O	83	332	7.8	77	320	6.3
P	63	572	10.2	60	523	7.8
Q	88	198	8.4	85	199	8.7
R	100	118	7.4	96	117	7.6
S	93	649	8.3	88	592	6.8
T	87	682	8.9	81	593	6.3
U	87	45	12.0	84	45	10.7

NOTE: N* indicates the number of physicians surveyed.

Table K.9 continued

Intra-service ratings of work.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Urology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	112	2,670	7.8	112	2,670	7.8
B	115	38	11.8	109	38	8.6
C	115	572	7.2	112	560	6.2
D	115	91	8.6	112	84	7.4
E	102	759	8.3	100	762	7.5
F	113	118	8.8	111	112	7.9
G	115	99	8.7	114	96	8.3
H	115	986	6.7	114	1,008	6.4
I	111	104	3.7	106	103	2.7
J	115	124	8.3	114	121	8.0
K	55	479	10.5	54	499	9.6
L	88	1,301	8.3	88	1,301	8.3
M	67	1,009	9.5	65	1,084	8.1
N	114	872	8.1	112	914	7.5
O	115	102	7.9	114	100	7.6
P	99	122	7.2	99	122	7.2
Q	115	241	5.8	110	248	4.2
R	76	48	11.1	76	48	11.1
S	109	157	8.9	107	148	7.9
T	72	519	8.7	70	553	7.6
U	98	277	6.2	98	277	6.2

NOTE: N* indicates the number of physicians surveyed.

Table K.10

Intra-service ratings of mental effort and judgment.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Allergy and immunology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	103	227	9.1	102	218	8.3
B	107	123	6.5	101	131	4.8
C	99	155	8.8	98	148	7.6
D	102	168	8.5	101	161	7.5
E	103	446	5.9	102	455	5.5
F	110	395	5.2	109	396	5.3
G	102	58	10.1	102	58	10.1
H	110	151	6.8	109	151	6.9
I	40	214	14.0	40	214	14.0
J	58	287	10.9	58	287	10.9
K	107	209	7.3	106	211	7.4
L	108	443	6.7	106	424	5.0
M	100	163	9.6	99	154	7.5
N	111	403	5.6	110	403	5.7
O	111	251	5.5	110	251	5.5
P	111	281	6.5	108	280	5.6
Q	87	106	9.8	85	109	9.3
R	99	457	6.1	99	457	6.1

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Anesthesiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	86	592	5.2	86	592	5.2
B	116	87	4.4	110	90	3.4
C	117	209	3.8	117	209	3.8
D	116	251	4.2	115	255	4.0
E	113	133	3.9	111	133	3.5
F	117	178	3.5	115	174	3.2
G	115	257	3.9	115	257	3.9
H	102	191	5.0	102	191	5.0
I	116	105	2.7	115	104	2.5
J	116	210	3.7	115	208	3.6
K	114	471	4.1	114	471	4.1
L	117	82	4.0	113	84	3.1
M	112	155	5.4	111	157	5.1
N	102	246	6.1	101	241	5.8
O	117	171	3.8	115	176	3.1
P	116	349	4.1	116	349	4.1
Q	113	108	3.5	113	108	3.5
R	115	150	4.5	114	148	4.3
S	117	146	3.7	116	144	3.5
T	101	417	4.5	101	417	4.5
U	112	252	3.8	112	252	3.8
V	107	161	5.4	107	161	5.4

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Dermatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
VICE	RAWN	RAWGMEAN	RAWPSE	EDTN	EDTGMEAN	EDTPSE
A	99	242	8.2	98	250	7.6
B	95	127	6.4	94	123	5.9
C	99	218	4.9	99	218	4.9
D	87	121	7.2	86	124	6.8
E	99	192	5.5	98	189	5.2
F	99	89	8.1	98	93	6.5
G	98	104	4.2	95	100	3.5
H	94	110	7.4	93	113	6.9
I	26	223	13.5	26	223	13.5
J	98	195	5.4	97	192	5.1
K	53	119	9.0	53	119	9.0
L	97	152	7.1	96	156	6.6
M	94	260	8.4	94	260	8.4
N	91	375	8.7	89	354	7.8
O	92	116	7.6	90	116	6.6
P	97	318	5.7	96	312	5.5
Q	22	191	15.5	22	191	15.5
R	98	267	6.1	98	267	6.1
S	53	353	10.9	53	353	10.9
T	98	333	5.9	98	333	5.9
U	92	243	7.6	92	243	7.6

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Family practice

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	102	276	5.6	101	272	5.3
B	103	55	6.2	103	55	6.2
C	103	92	8.9	101	93	7.7
D	41	315	15.5	41	315	15.5
E	86	127	7.3	84	127	6.3
F	98	114	7.1	95	117	6.1
G	31	539	16.7	31	539	16.7
H	66	421	11.8	65	401	10.7
I	100	45	7.6	100	45	7.6
J	102	49	8.0	102	49	8.0
K	78	228	8.5	76	231	6.9
L	104	97	5.9	103	95	5.6
M	104	84	6.6	102	84	6.0
N	104	108	5.4	101	114	4.4
O	104	140	4.8	101	145	3.5
P	104	240	4.3	103	236	3.9
Q	104	203	4.5	103	199	4.1
R	99	101	6.1	98	103	5.6
S	100	221	4.8	98	221	4.3
T	101	371	6.3	96	347	4.5
U	100	293	5.8	98	292	5.2
V	100	326	5.5	100	326	5.5
W	103	108	5.5	99	112	4.0
X	103	147	7.0	103	147	7.0
Y	96	116	6.8	95	113	6.5

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: General surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	72	685	9.3	68	597	6.3
B	96	45	8.8	94	44	8.9
C	39	37	12.0	37	36	12.3
D	100	241	6.9	97	241	5.7
E	95	135	8.3	93	128	7.6
F	33	79	9.4	33	79	9.4
G	100	400	6.7	96	362	4.5
H	100	137	5.3	97	129	4.3
I	99	27	7.8	97	27	7.9
J	55	127	11.9	52	129	10.5
K	100	222	5.5	96	207	4.2
L	60	247	8.8	57	221	5.9
M	57	86	11.3	55	80	10.1
N	80	63	10.0	78	62	9.8
O	89	104	12.2	87	98	11.7
P	71	73	13.0	69	68	11.7
Q	99	26	12.3	97	25	12.3
R	100	31	12.9	98	30	12.6
S	100	74	12.1	98	70	11.5
T	99	78	11.0	96	76	9.6
U	100	26	11.9	98	25	11.5
V	93	189	12.4	91	175	11.0
W	100	126	11.0	98	119	10.3
X	72	88	11.2	70	83	10.6
Y	96	196	11.6	93	193	10.6

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Internal medicine

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	449	5.9	100	451	6.0
B	101	94	5.4	98	93	4.8
C	92	87	8.7	91	90	8.2
D	89	106	8.3	87	108	7.8
E	86	42	9.5	84	43	8.4
F	101	198	6.2	99	202	6.0
G	100	377	5.2	99	383	4.9
H	100	93	6.2	98	90	5.9
I	100	134	4.7	100	134	4.7
J	100	216	4.6	98	222	4.1
K	101	297	4.9	100	298	5.0
L	100	243	4.8	98	245	4.6
M	100	291	5.2	99	296	4.9
N	100	142	5.1	100	142	5.1
O	101	163	5.4	100	164	5.4
P	93	93	5.4	92	95	5.2
Q	94	252	4.7	94	252	4.7
R	100	326	5.0	99	331	4.8
S	101	154	5.1	100	154	5.1
T	101	116	6.6	99	114	6.3
U	100	82	7.3	99	82	7.4
V	100	110	7.4	99	108	7.4
W	99	203	6.6	98	208	6.3
X	96	116	6.3	94	114	6.3

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Oral and maxillofacial surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	108	1,711	11.6	107	1,739	11.6
B	109	48	8.6	109	48	8.6
C	108	198	8.5	107	204	8.0
D	108	223	8.0	107	229	7.8
E	106	191	7.2	104	191	6.6
F	107	158	8.6	107	158	8.6
G	109	186	8.3	107	197	7.3
H	109	65	8.0	108	66	7.6
I	108	1,106	11.0	105	1,124	9.8
J	110	96	8.9	108	93	8.5
K	107	243	9.6	106	243	9.7
L	110	92	10.0	108	89	9.7
M	90	217	8.8	89	211	8.4
N	106	213	8.8	104	202	8.1
O	100	294	8.8	99	296	8.9
P	110	313	8.4	108	323	8.1
Q	110	746	8.3	109	756	8.3
R	109	49	7.6	109	49	7.6
S	91	142	10.4	90	141	10.5
T	108	756	9.3	107	767	9.3
U	53	623	13.5	53	623	13.5
V	89	537	9.7	89	537	9.7
W	97	900	9.1	96	915	9.0

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Obstetrics and gynecology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	93	152	7.9	82	150	8.9
B	83	50	9.6	83	50	9.6
C	83	128	9.6	82	132	9.1
D	83	93	10.6	83	93	10.6
E	83	177	9.7	82	184	8.9
F	83	302	9.0	82	312	8.4
G	83	323	9.8	82	335	9.2
H	83	373	9.8	82	386	9.2
I	93	227	5.6	82	224	6.1
J	93	366	6.7	81	372	6.9
K	93	66	7.2	82	66	7.9
L	93	137	8.6	80	136	8.5
M	83	182	8.3	82	187	7.9
N	88	173	7.4	78	171	8.2
O	86	194	6.7	76	194	7.3
P	84	56	8.0	83	56	8.0
Q	84	296	9.1	82	302	8.5
R	56	200	9.1	56	200	9.1
S	66	131	8.1	65	127	7.5
T	83	83	10.5	82	85	10.0
U	94	103	8.0	79	104	7.1
V	93	426	7.1	82	417	7.6
W	47	156	8.7	45	159	8.9
X	93	183	8.5	82	186	9.4
Y	25	212	12.2	25	212	12.2
Z	82	148	9.4	80	149	9.6

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Ophthalmology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	70	2,479	10.0	66	2,384	9.2
B	100	112	9.3	94	109	9.4
C	100	175	9.2	93	169	8.9
D	100	286	8.6	92	261	7.7
E	96	1,178	9.5	87	1,154	7.1
F	99	160	10.2	93	156	10.4
G	88	172	8.7	87	171	8.7
H	72	283	9.8	72	283	9.8
I	86	838	10.2	80	785	7.5
J	97	1,643	11.1	87	1,694	8.0
K	95	1,138	9.8	87	1,014	6.6
L	95	1,358	10.2	86	1,353	7.7
M	57	2,245	10.7	56	2,124	9.1
N	69	1,020	13.7	68	957	12.0
O	87	243	9.4	83	231	7.5
P	82	125	11.7	81	127	11.8
Q	73	290	10.3	70	266	8.5
R	56	129	13.4	56	129	13.4
S	100	103	11.6	93	96	10.7
T	37	976	13.7	37	976	13.7
U	93	643	10.6	86	605	8.7

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Orthopedic surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	100	645	6.9	99	632	6.7
B	100	38	13.7	100	38	13.7
C	100	154	5.7	99	151	5.4
D	98	246	7.1	97	240	6.7
E	83	489	7.9	82	503	7.4
F	101	324	7.4	101	324	7.4
G	99	214	6.5	97	216	6.6
H	94	83	10.7	93	83	10.8
I	98	90	10.5	98	90	10.5
J	98	227	11.2	98	227	11.2
K	101	43	10.8	101	43	10.8
L	98	36	11.6	96	34	10.5
M	100	44	11.2	97	44	10.5
N	101	58	11.0	100	58	11.1
O	102	39	12.1	99	37	11.7
P	100	27	11.3	98	27	11.4
Q	100	28	11.7	99	28	11.8
R	101	28	9.1	100	29	9.2
S	67	106	11.4	66	111	10.4
T	80	690	7.9	80	690	7.9
U	99	31	11.9	97	31	11.4

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Otolaryngology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	842	7.0	97	881	5.9
B	106	33	9.6	105	32	9.6
C	106	63	9.8	104	63	9.9
D	107	69	6.4	103	72	6.0
E	86	147	7.1	81	152	5.4
F	98	477	7.2	96	462	6.8
G	106	152	6.5	103	149	5.5
H	104	606	7.5	101	629	6.2
I	107	108	10.0	105	109	10.2
J	106	38	11.7	104	38	11.8
K	92	59	12.5	90	58	12.3
L	102	618	7.3	100	622	6.4
M	106	259	7.3	104	262	6.3
N	106	81	9.8	105	81	9.9
O	78	242	6.6	76	233	6.0
	20	550	31.0	17	675	19.7
Q	29	991	11.9	26	1,051	9.9
R	104	99	7.9	102	101	6.0
S	96	133	12.6	94	128	12.2
T	106	182	5.7	102	183	4.6
U	105	45	9.1	103	46	8.4

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pathology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	117	567	7.7	112	533	7.0
B	119	45	6.8	113	46	6.3
C	119	645	7.1	114	633	6.0
	17	367	28.1	17	367	28.1
E	119	248	7.3	114	244	6.3
F	93	222	7.6	90	220	6.6
G	116	351	6.9	112	356	5.7
H	111	211	7.3	107	212	6.0
I	119	539	6.6	113	517	5.5
J	108	491	6.5	106	487	5.5
K	94	487	9.0	90	463	7.2
L	119	364	6.1	112	347	5.2
M	119	374	6.9	114	355	6.2
N	98	405	8.2	95	396	7.2
O	119	523	7.0	112	490	5.7
P	84	154	9.4	81	149	7.7
Q	119	291	5.9	114	284	5.1
R	111	131	7.2	108	130	6.4

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pediatrics

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	92	575	8.6	90	544	7.6
B	104	65	6.1	100	69	5.3
C	104	153	4.8	103	152	4.8
D	104	168	5.0	103	168	5.0
E	104	190	6.8	102	183	5.6
F	102	227	6.8	101	218	5.6
G	103	356	6.9	99	341	5.0
H	103	312	5.7	102	302	4.6
I	104	254	5.4	102	257	5.2
J	102	159	6.8	102	159	6.8
K	90	253	8.2	90	253	8.2
L	103	355	5.5	102	354	5.6
M	95	133	7.0	95	133	7.0
N	101	208	7.7	99	218	7.0
O	102	318	6.4	100	301	5.1
P	92	129	6.6	92	129	6.6
Q	92	71	7.0	90	75	6.0
R	103	96	5.6	101	100	4.9
S	104	247	5.0	103	246	5.0
T	104	86	5.8	102	89	5.5
U	103	125	6.7	102	125	6.7

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Psychiatry

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	229	6.5	99	229	6.5
B	100	75	7.6	99	74	7.2
C	104	100	2.9	89	100	0.9
D	102	168	4.0	99	165	3.9
E	99	137	4.9	98	136	4.9
F	101	61	5.5	100	61	5.5
G	103	115	4.7	97	117	4.3
H	102	104	4.3	98	103	3.7
I	99	146	4.0	97	144	3.8
J	88	181	5.3	87	177	5.0
K	90	156	4.5	88	151	3.8
L	98	184	4.6	98	184	4.6
M	102	178	4.2	99	178	4.3
N	103	178	4.4	98	174	3.9
O	101	79	5.4	98	79	4.8
P	64	82	13.0	64	82	13.0
Q	98	288	5.5	96	282	5.2
R	100	150	5.0	98	152	5.0
S	104	147	3.9	99	147	3.8
T	99	192	4.5	96	193	4.6
U	96	132	5.3	90	130	4.4
V	98	227	5.2	97	227	5.2
W	98	158	4.7	97	159	4.8
X	94	136	5.2	94	136	5.2

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Radiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	632	6.8	95	636	5.6
B	120	53	7.6	114	59	6.2
C	120	51	7.1	115	52	6.0
D	120	131	3.8	115	133	3.0
E	108	169	5.2	107	174	4.5
F	109	198	7.6	106	214	5.3
G	103	195	5.9	102	199	5.6
H	93	259	9.7	91	279	7.2
I	120	31	7.4	115	31	6.4
J	113	112	7.8	110	120	6.2
K	49	264	9.1	48	262	9.2
L	120	52	5.7	116	54	5.1
M	119	98	4.0	114	102	3.6
N	115	118	5.7	114	118	5.8
O	120	48	6.1	116	48	5.8
P	45	45	15.1	45	45	15.1
Q	120	48	6.1	116	49	5.6
R	102	103	7.0	101	104	6.8
S	107	221	5.6	106	220	5.7
T	120	39	6.5	114	40	5.6
U	103	102	7.1	101	105	6.8

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Rheumatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	119	561	5.9	117	546	5.6
B	119	89	7.5	118	89	7.5
C	118	330	5.5	116	331	5.2
D	118	428	5.4	116	430	5.1
E	118	83	9.1	116	85	8.2
F	103	96	9.0	101	98	7.7
G	118	78	8.8	116	80	7.9
H	119	292	6.2	117	282	5.8
I	118	179	5.1	116	176	4.9
J	118	217	5.5	116	221	5.1
K	119	524	5.8	117	508	5.5
L	73	87	12.7	73	87	12.7
M	118	167	4.8	116	164	4.5
N	119	111	5.2	113	111	4.1
O	118	288	5.8	116	290	5.1
P	116	43	8.5	115	42	8.5
Q	119	69	6.9	118	69	7.0
R	116	34	8.5	114	34	8.2

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Thoracic and cardiovascular surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	77	866	10.0	76	831	9.1
B	92	42	9.1	87	44	8.3
C	92	18	12.5	88	18	12.9
D	77	587	9.9	75	545	8.3
E	77	36	15.9	75	35	12.3
F	91	62	13.8	86	64	10.7
G	86	76	9.3	82	75	8.0
H	88	347	8.5	85	337	7.5
I	76	463	9.1	74	443	8.1
J	90	135	9.9	87	128	7.7
K	87	67	13.8	83	66	11.5
L	92	41	9.6	86	42	8.5
M	88	81	10.6	86	83	10.8
N	82	55	13.6	79	54	11.4
O	75	314	11.1	72	291	9.5
P	55	485	9.9	54	461	8.4
Q	79	175	9.7	77	180	9.7
R	92	123	8.5	88	121	8.8
S	84	481	8.8	80	449	7.6
T	77	583	11.0	75	539	9.5
U	78	64	13.9	75	72	11.6

NOTE: N* indicates the number of physicians surveyed.

Table K.10 continued

Intra-service ratings of mental effort and judgment. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Urology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	108	2,179	8.7	107	2,127	8.3
B	110	58	10.1	109	56	9.6
C	110	452	7.4	109	442	7.0
D	110	134	9.0	110	134	9.0
E	97	549	9.6	94	538	8.1
F	108	159	9.3	107	155	8.9
G	110	135	9.0	110	135	9.0
H	110	735	9.1	108	778	8.2
I	106	107	4.9	97	103	1.7
J	110	167	8.7	110	167	8.7
K	50	426	12.5	50	426	12.5
L	83	1,029	10.0	83	1,029	10.0
M	66	759	11.1	66	759	11.1
N	110	755	8.8	110	755	8.8
O	110	119	8.6	110	119	8.6
P	94	143	10.2	91	137	8.6
Q	110	220	6.1	110	220	6.1
R	72	69	13.4	72	69	13.4
S	103	207	8.9	102	201	8.4
T	70	335	10.9	70	335	10.9
U	93	183	9.4	92	194	7.4

NOTE: N* indicates the number of physicians surveyed.

Table K.11

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Allergy and immunology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	102	233	10.5	99	243	7.6
B	108	105	5.5	104	110	4.4
C	98	197	7.8	94	194	5.5
D	100	208	7.8	96	205	5.6
E	103	335	6.7	103	335	6.7
F	110	280	5.9	109	281	5.9
G	101	58	9.3	101	58	9.3
H	108	87	12.4	104	104	8.7
I	40	295	14.5	40	295	14.5
J	60	315	10.4	60	315	10.4
K	107	166	11.2	105	183	8.6
L	108	271	8.4	106	261	6.7
M	100	172	10.5	97	175	6.4
N	111	250	6.8	110	252	6.8
O	111	193	5.2	108	195	4.7
P	110	168	10.3	107	179	6.9
Q	87	61	15.0	82	77	10.2
R	99	347	6.3	98	354	6.0

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Anesthesiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	86	500	5.2	86	500	5.2
B	116	88	4.1	113	88	3.4
C	116	201	3.7	116	201	3.7
D	116	239	4.1	116	239	4.1
E	113	134	4.0	109	132	3.2
F	117	174	3.6	114	169	3.2
G	115	240	4.5	112	239	3.6
H	102	189	5.5	101	192	5.3
I	116	109	2.7	115	108	2.6
J	116	207	3.3	115	205	3.1
K	114	433	4.2	114	433	4.2
L	117	78	3.5	115	80	3.1
M	112	124	5.7	112	124	5.7
N	100	105	13.0	95	131	7.9
O	117	152	3.4	116	153	3.3
P	116	294	3.8	115	291	3.7
Q	113	113	4.1	113	113	4.1
R	114	162	4.6	113	160	4.5
S	117	143	3.5	116	142	3.3
T	101	386	4.5	100	381	4.4
U	112	217	4.3	111	222	3.8
V	106	71	11.8	99	92	6.0

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Dermatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	98	369	7.2	97	379	6.6
B	94	168	6.4	92	167	5.7
C	98	142	7.8	95	149	4.9
D	86	150	7.5	85	154	7.0
E	96	133	9.4	93	145	5.1
F	98	121	6.2	97	123	6.0
G	98	88	9.4	94	103	3.9
H	94	116	6.9	93	120	6.4
I	26	237	30.1	25	295	16.4
J	98	130	9.6	94	144	5.4
K	53	104	16.4	51	125	8.9
L	97	195	5.6	95	203	4.9
M	94	364	6.3	93	357	6.0
N	91	592	7.4	90	578	7.1
O	92	159	6.2	90	159	5.7
P	98	165	13.6	93	200	7.0
Q	21	226	16.8	21	226	16.8
R	98	130	13.9	93	170	6.6
S	54	164	22.4	51	222	12.4
T	98	176	10.6	95	192	6.7
U	91	380	7.3	91	380	7.3

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Family practice

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	215	6.3	100	210	6.0
B	102	53	7.6	101	56	6.5
C	102	192	6.5	100	200	5.8
D	38	512	12.8	38	512	12.8
E	86	223	6.4	85	230	5.8
F	97	192	5.6	95	193	4.9
G	30	917	12.9	30	917	12.9
H	65	560	11.0	64	535	10.1
I	99	53	8.3	99	53	8.3
J	100	58	8.5	99	60	8.2
K	77	218	7.8	76	227	6.6
L	103	84	5.1	100	88	4.2
M	103	78	6.2	100	83	5.3
N	103	136	4.8	100	136	3.5
O	103	123	4.9	100	126	3.7
P	103	191	5.1	101	191	4.7
Q	103	170	4.8	102	173	4.6
R	98	102	5.9	94	110	4.6
S	99	176	5.3	98	180	4.9
T	100	304	7.4	96	290	5.9
U	99	180	9.3	96	191	6.4
V	99	256	6.5	96	250	5.6
W	102	111	5.8	99	114	4.2
X	101	71	11.0	99	77	9.0
Y	95	65	12.0	91	76	8.4

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: General surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	73	709	7.7	69	632	5.1
B	97	43	7.7	94	41	7.3
C	38	34	12.2	37	33	12.5
D	100	262	6.1	96	265	4.8
E	95	115	6.5	92	113	5.6
F	33	87	8.7	33	87	8.7
G	100	432	6.5	95	386	4.1
H	100	125	4.8	97	119	3.8
I	99	25	7.1	97	24	7.2
J	55	132	11.0	53	122	9.5
K	100	231	5.7	95	218	3.7
L	60	276	8.1	57	247	5.0
M	57	83	9.8	55	79	8.8
N	80	61	9.9	78	61	10.0
O	88	34	18.0	86	32	17.7
P	70	36	15.7	68	34	15.4
Q	99	14	13.6	97	13	13.6
R	99	16	13.6	97	15	13.7
S	99	31	14.0	97	29	13.7
T	98	33	14.9	96	31	14.1
U	99	15	13.6	97	14	13.4
V	92	82	17.7	90	75	16.4
W	99	55	15.0	97	51	13.8
X	73	76	11.0	71	72	10.3
Y	95	114	13.5	92	114	12.0

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Internal medicine

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	102	329	6.5	101	329	6.5
B	102	81	4.9	99	84	4.3
C	93	194	6.9	93	194	6.9
D	90	222	6.0	88	227	5.6
E	87	63	9.3	84	67	8.4
F	102	132	7.7	99	143	5.3
G	101	237	6.0	101	237	6.0
H	101	86	6.0	99	87	5.6
I	101	113	4.1	100	112	4.0
J	101	165	4.3	101	165	4.3
K	102	189	5.0	101	190	5.0
L	101	168	5.0	100	167	4.9
M	101	212	5.9	101	212	5.9
N	101	119	4.9	100	121	4.6
O	102	129	4.8	101	130	4.8
P	93	88	7.8	92	93	5.9
Q	94	191	5.0	94	191	5.0
R	101	216	5.1	100	213	4.9
S	102	128	4.8	100	130	4.5
T	102	120	6.0	100	122	5.8
U	101	82	9.4	99	86	8.3
V	100	48	14.8	99	48	14.9
W	99	68	17.5	99	68	17.5
X	96	57	15.9	94	57	16.2

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Oral and maxillofacial surg

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	108	1,627	11.5	106	1,713	10.9
B	109	24	10.8	109	24	10.8
C	108	271	6.6	107	266	6.4
D	108	297	6.6	108	297	6.6
E	106	155	6.3	105	158	6.1
F	107	120	7.9	106	123	7.6
G	109	169	8.0	108	165	7.7
H	109	61	7.0	108	63	6.6
I	108	1,059	9.9	107	1,076	9.8
J	110	88	7.6	109	88	7.6
K	107	121	12.0	104	133	10.1
L	110	53	10.5	106	56	8.7
M	91	166	7.2	90	170	6.8
N	106	168	7.5	106	168	7.5
O	100	301	8.4	99	303	8.4
P	110	381	7.9	109	385	7.9
Q	110	851	8.7	109	863	8.6
R	109	30	11.4	104	35	8.8
S	91	77	13.5	87	89	10.3
T	108	771	9.7	106	806	9.2
U	51	654	12.5	51	654	12.5
V	91	591	9.9	91	591	9.9
W	97	933	9.2	96	948	9.2

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Obstetrics and gynecology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	94	64	9.4	83	64	10.0
B	84	32	8.9	84	32	8.9
C	84	71	9.7	83	69	9.2
D	84	57	9.8	84	57	9.8
E	84	132	12.0	83	138	11.4
F	84	188	13.8	82	188	12.3
G	84	186	13.2	82	183	11.0
H	84	242	14.4	82	238	11.8
I	94	291	6.1	81	285	5.5
J	94	469	7.3	82	441	6.8
K	94	51	7.9	82	53	8.2
L	94	84	9.1	83	87	9.8
M	84	212	8.6	84	212	8.6
N	89	156	7.4	78	157	7.5
O	87	238	6.8	76	230	7.0
P	85	43	8.1	84	44	8.2
Q	85	358	7.2	82	375	6.6
R	58	147	13.7	58	147	13.7
S	67	126	9.4	65	118	8.1
T	84	35	13.4	82	39	11.9
U	95	59	9.3	84	58	10.0
V	94	537	7.0	83	522	7.6
W	48	161	7.5	45	156	6.6
X	94	87	10.4	83	89	11.1
Y	25	190	12.4	25	190	12.4
Z	83	72	12.6	79	74	11.0

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Ophthalmology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	70	2,657	10.4	66	2,504	9.5
B	100	68	9.8	93	72	9.2
C	100	108	10.0	92	114	8.5
D	100	186	10.3	92	192	8.4
E	95	1,214	7.3	88	1,211	6.9
F	99	64	14.6	89	80	11.0
G	88	123	10.3	86	129	8.6
H	72	181	14.7	70	210	9.6
I	86	876	9.6	81	814	7.3
J	96	1,561	10.6	87	1,711	7.8
K	95	1,140	9.4	88	991	5.9
L	95	1,308	9.3	86	1,339	6.9
M	57	2,203	11.4	56	2,084	9.8
N	68	939	10.9	68	939	10.9
O	87	221	9.6	84	206	8.3
P	82	59	17.1	81	61	16.9
Q	72	177	12.2	70	189	9.6
R	56	120	11.5	56	120	11.5
S	100	66	11.8	93	71	11.1
T	37	962	16.4	37	962	16.4
U	92	589	9.1	86	638	8.6

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Orthopedic surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	758	6.1	100	744	5.9
B	101	21	14.5	101	21	14.5
C	101	192	6.3	99	200	5.7
D	98	341	7.6	96	358	6.9
E	82	566	7.7	81	583	7.1
F	101	422	9.0	100	448	6.3
G	99	256	7.0	96	250	6.4
H	94	45	13.0	89	52	10.6
I	97	48	13.1	95	52	11.7
J	98	139	15.1	97	147	14.2
K	100	31	13.9	100	31	13.9
L	97	21	15.3	97	21	15.3
M	100	47	10.7	97	47	10.1
N	100	32	12.8	99	32	12.9
O	101	20	14.9	98	20	14.1
P	100	15	13.0	98	15	12.9
Q	100	17	13.0	99	17	13.1
R	101	31	8.4	100	31	8.3
S	67	88	12.0	66	92	11.2
T	80	755	8.3	80	755	8.3
U	100	18	13.2	99	18	13.3

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Otolaryngology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	102	899	5.9	99	893	5.2
B	106	21	8.9	105	21	9.0
C	105	36	8.5	102	37	7.8
D	107	72	4.8	105	72	4.9
E	86	141	6.1	85	138	5.7
F	98	559	6.5	96	537	5.9
G	106	140	5.5	103	137	4.7
H	104	697	5.3	101	708	5.1
I	106	53	10.8	103	56	10.1
J	105	20	12.5	103	20	12.5
K	91	30	14.7	89	31	14.8
L	102	699	6.8	98	708	5.2
M	106	250	7.1	104	253	6.7
N	105	51	10.3	104	50	10.3
O	79	228	8.0	76	229	5.3
	20	653	16.1	18	635	17.9
Q	29	953	14.3	25	1,080	9.7
R	105	105	5.4	103	105	5.0
S	95	60	12.5	93	62	11.8
T	106	194	5.3	103	197	4.3
U	105	54	8.4	104	54	8.5

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pathology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	117	777	7.3	112	740	6.9
B	119	39	6.6	115	40	6.2
C	118	348	7.1	111	357	5.8
	16	115	70.4	16	115	70.4
E	119	148	10.7	114	150	9.7
F	92	77	17.3	90	73	17.1
G	114	137	13.3	110	147	11.9
H	110	86	12.3	105	96	9.9
I	119	255	8.3	115	247	8.2
J	107	178	13.3	105	185	12.4
K	92	128	18.3	87	156	14.8
L	118	159	9.1	114	156	9.1
M	119	385	6.2	114	368	5.7
N	97	127	16.4	93	142	13.3
O	119	216	9.2	114	219	9.1
P	83	58	17.9	81	57	16.9
Q	119	138	7.2	115	138	7.1
R	110	107	9.2	107	108	8.9

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pediatrics

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	91	562	7.3	89	535	6.5
B	104	53	7.9	102	55	6.9
C	104	136	4.8	103	136	4.8
D	104	158	5.4	103	158	5.4
E	104	167	5.8	102	165	5.6
F	102	193	6.3	102	193	6.3
G	103	314	9.4	101	321	6.5
H	103	263	6.4	102	254	5.2
I	104	207	5.7	103	207	5.7
J	102	73	13.4	97	92	8.7
K	90	404	6.6	89	389	5.5
L	103	273	5.8	102	273	5.8
M	94	173	7.3	92	181	6.7
N	101	310	5.5	100	316	5.2
O	102	150	13.4	96	178	7.8
P	92	229	7.2	91	220	5.8
Q	91	84	7.7	91	84	7.7
R	103	89	7.3	100	98	4.8
S	104	191	6.6	102	183	5.4
T	104	48	12.0	96	63	6.4
U	103	193	6.4	100	202	5.6

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Psychiatry

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	95	203	6.3	95	203	6.3
B	96	68	8.1	95	70	7.6
C	99	100	3.2	88	100	1.3
D	97	151	5.2	95	153	4.9
E	94	128	5.1	94	128	5.1
F	96	62	5.6	94	62	4.9
G	98	111	4.4	94	109	4.0
H	97	103	4.5	93	102	3.6
I	95	137	4.4	94	135	4.2
J	85	172	5.8	84	168	5.4
K	87	144	4.6	86	141	4.0
L	94	171	5.0	94	171	5.0
M	97	165	4.5	95	165	4.5
N	98	168	4.7	95	165	4.6
O	96	78	6.0	94	82	5.0
P	63	117	10.7	62	122	10.0
Q	94	259	5.9	93	258	6.0
R	95	146	5.4	92	141	4.8
S	99	139	4.3	95	138	4.2
T	94	172	4.3	91	170	4.1
U	93	134	4.5	89	132	4.4
V	94	213	5.6	93	214	5.7
W	95	157	4.7	93	155	4.5
X	90	124	6.2	90	124	6.2

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Radiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	742	6.3	96	723	5.9
B	118	12	14.5	115	12	14.6
C	118	14	15.0	115	14	15.1
D	120	136	3.2	117	136	3.3
E	108	184	5.4	108	184	5.4
F	107	59	19.0	106	60	19.1
G	104	175	8.8	102	191	6.0
H	93	310	10.7	90	351	6.9
I	119	11	14.0	116	11	14.1
J	112	28	17.6	111	29	17.7
K	48	91	28.3	47	88	28.6
L	119	15	15.0	116	15	15.0
M	119	69	7.4	116	73	6.1
N	115	144	6.0	113	148	5.7
O	119	14	15.1	116	14	15.1
P	44	26	24.4	44	26	24.4
Q	119	15	15.2	116	15	15.1
R	101	134	8.1	98	146	5.8
S	107	286	5.8	105	279	5.5
T	119	13	14.2	116	13	14.2
U	102	26	18.4	101	26	18.5

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Rheumatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	118	244	6.6	117	241	6.5
B	118	58	11.6	113	67	9.1
C	117	193	7.4	115	199	5.6
D	116	249	6.1	115	246	6.0
E	117	170	7.6	116	166	7.2
F	102	139	9.8	99	145	7.4
G	117	156	7.6	115	156	6.8
H	118	182	6.0	116	183	5.6
I	117	132	4.3	116	132	4.3
J	117	149	4.5	116	149	4.5
K	118	257	6.5	117	254	6.4
L	73	75	16.7	70	90	12.5
M	117	133	4.8	116	132	4.9
N	118	107	4.2	117	106	4.2
O	117	203	5.8	115	205	5.3
P	115	23	14.6	114	23	14.7
Q	118	47	13.8	117	47	13.9
R	115	22	14.1	114	21	14.3

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Thoracic and cardiovascular surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	81	990	8.0	79	938	7.1
B	96	42	7.4	90	44	6.6
C	94	9	13.9	90	9	13.9
D	81	678	8.3	80	657	7.7
E	81	18	17.2	80	17	16.8
F	94	24	17.1	91	22	17.0
G	90	74	9.4	84	75	6.9
H	94	444	8.1	89	410	6.4
I	80	601	9.1	77	557	7.3
J	93	153	10.4	88	135	7.0
K	88	23	17.6	86	22	17.8
L	95	35	8.3	90	36	8.3
M	91	65	10.3	87	70	9.2
N	85	22	18.9	83	21	17.4
O	78	412	9.3	75	383	7.8
P	58	524	9.7	57	548	8.5
Q	83	193	9.1	79	195	8.2
R	93	125	7.1	88	122	7.0
S	87	640	7.7	83	607	6.9
T	80	712	8.8	77	652	7.2
U	80	25	18.5	79	24	17.9

NOTE: N* indicates the number of physicians surveyed.

Table K.11 continued

Intra-service ratings of technical skill and physical effort. Geometric means and approximate percent standard errors estimated using unedited data and edited data: Urology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	109	2,620	8.6	108	2,700	8.0
B	111	34	14.0	111	34	14.0
C	111	601	7.1	109	603	6.6
D	111	73	11.7	108	76	9.9
E	97	698	8.3	93	668	6.7
F	109	81	12.7	105	83	10.2
G	111	73	11.5	108	77	9.6
H	111	1,011	6.9	110	1,035	6.5
I	107	105	3.7	100	102	2.1
J	110	83	13.3	107	94	11.1
K	51	544	11.7	50	571	10.8
L	84	1,408	9.3	83	1,352	8.3
M	65	770	12.9	63	849	10.9
N	111	925	8.7	109	943	7.3
O	110	71	12.6	105	75	9.6
P	95	101	10.6	94	107	9.3
Q	111	260	5.3	109	270	4.7
R	72	49	12.8	72	49	12.8
S	104	100	13.4	100	110	10.0
T	70	489	9.7	70	489	9.7
U	94	266	6.4	94	266	6.4

NOTE: N* indicates the number of physicians surveyed.

Table K.12

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Allergy and immunology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	105	449	7.6	103	445	6.7
B	108	143	6.8	103	144	5.7
C	101	208	8.6	97	206	6.3
D	104	263	8.4	101	254	6.9
E	104	447	7.0	102	447	6.4
F	111	301	5.7	108	312	5.3
G	104	187	8.8	104	187	8.8
H	111	105	7.9	110	105	7.9
I	40	236	14.8	40	236	14.8
J	60	431	10.3	60	431	10.3
K	107	291	7.3	105	286	6.8
L	109	333	8.1	107	316	6.5
M	100	165	9.7	99	156	7.6
N	112	255	5.7	111	254	5.8
O	112	270	6.2	109	271	5.7
P	112	175	8.6	108	182	6.2
Q	87	94	11.6	84	102	9.8
R	100	464	7.6	99	475	7.3

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Anesthesiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	86	632	6.9	85	612	6.0
B	116	92	4.8	113	93	4.3
C	117	212	4.0	116	210	3.9
D	116	264	4.1	115	261	3.9
E	113	145	4.4	111	145	3.9
F	117	176	3.6	116	173	3.3
G	115	260	4.1	114	257	4.0
H	102	229	5.4	102	229	5.4
I	116	105	2.9	115	104	2.8
J	116	220	4.0	113	218	3.5
K	114	500	5.2	112	496	4.1
L	117	88	3.7	115	90	3.3
M	112	161	6.0	110	167	5.6
N	101	207	9.0	98	199	7.3
O	117	189	4.0	116	191	3.9
P	116	390	4.6	115	383	4.2
Q	113	128	4.7	113	128	4.7
R	115	196	5.0	115	196	5.0
S	117	151	3.6	115	148	3.3
T	101	453	5.5	100	444	5.2
U	112	319	4.6	112	319	4.6
V	107	149	6.8	107	149	6.8

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Dermatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	97	422	8.9	94	410	7.2
B	94	198	6.8	92	207	6.1
C	98	213	6.0	97	208	5.6
D	86	129	9.0	85	125	8.4
E	97	153	5.5	95	153	5.1
F	98	152	7.6	97	148	7.3
G	98	103	5.4	95	109	3.8
H	94	79	10.3	90	92	6.6
I	26	358	15.6	26	358	15.6
J	98	180	6.2	98	180	6.2
K	53	200	9.7	53	200	9.7
L	97	219	7.5	96	224	7.2
M	94	417	7.6	92	395	6.5
N	91	582	7.9	91	582	7.9
O	92	159	7.9	88	170	5.4
P	97	276	6.3	97	276	6.3
Q	21	323	18.9	21	323	18.9
R	98	202	6.4	98	202	6.4
S	53	567	14.3	53	567	14.3
T	98	320	6.3	98	320	6.3
U	92	389	7.7	91	378	7.2

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Family practice

Task	Raw data			Edited data		
	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	103	292	7.4	100	302	5.8
B	104	53	8.6	103	55	7.7
C	104	129	8.0	101	139	6.7
D	41	518	12.2	41	518	12.2
E	87	191	6.7	86	197	6.1
F	99	168	7.1	96	182	5.4
G	31	756	15.6	31	756	15.6
H	66	836	11.3	66	836	11.3
I	101	31	12.6	101	31	12.6
J	103	35	10.2	100	39	8.4
K	78	246	11.6	76	270	9.4
L	105	106	7.0	103	111	6.2
M	105	104	6.9	103	108	6.3
N	105	98	6.4	103	103	5.6
O	105	149	5.4	103	156	4.3
P	105	282	5.8	103	293	5.1
Q	105	221	6.0	102	236	4.6
R	100	85	7.1	96	93	5.6
S	101	192	7.5	98	210	5.4
T	102	426	7.1	99	416	6.1
U	101	237	7.0	98	243	5.9
V	101	353	6.1	100	360	5.8
W	104	93	6.5	100	95	4.9
X	104	220	8.8	103	228	8.0
Y	97	120	7.8	94	124	6.6

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: General surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	73	782	9.3	70	694	6.1
B	97	82	8.7	95	79	8.1
C	39	72	16.1	37	66	14.9
D	101	244	6.6	99	236	6.3
E	96	185	8.2	93	180	7.2
F	34	119	10.4	34	119	10.4
G	101	451	7.5	97	404	4.9
H	101	150	6.2	97	144	4.9
I	100	32	8.8	98	32	9.0
J	56	164	11.1	54	152	9.7
K	101	236	6.5	98	221	5.3
L	61	223	16.2	57	243	7.6
M	58	101	12.8	56	93	11.2
N	81	72	12.2	78	73	10.4
O	88	76	15.2	83	84	11.7
P	72	66	17.7	67	71	12.0
Q	101	25	13.8	99	23	13.4
R	101	30	14.3	99	29	14.0
S	101	84	14.2	96	91	11.1
T	99	78	14.9	94	83	11.7
U	101	29	14.8	99	28	14.3
V	94	226	15.3	89	241	10.2
W	101	141	13.5	97	146	10.4
X	74	128	12.3	72	119	11.0
Y	97	253	11.8	95	236	10.8

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Internal medicine

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	504	5.7	100	504	5.8
B	101	92	7.2	99	96	5.5
C	92	177	8.3	91	188	5.8
D	89	189	7.2	87	193	5.6
E	85	34	13.8	84	33	13.6
F	101	200	5.7	100	199	5.7
G	100	401	5.6	100	401	5.6
H	100	115	6.9	99	114	6.9
I	100	148	4.9	100	148	4.9
J	100	259	5.1	99	265	4.7
K	101	291	5.2	100	291	5.2
L	100	250	5.2	99	248	5.2
M	100	304	6.5	99	315	5.5
N	100	144	5.4	100	144	5.4
O	101	204	5.6	100	204	5.7
P	93	77	9.7	89	89	5.9
Q	94	254	5.4	93	261	4.8
R	100	337	5.0	100	337	5.0
S	101	148	5.4	100	147	5.4
T	101	102	6.9	99	105	6.6
U	100	90	9.5	97	97	7.9
V	100	157	7.7	99	153	7.3
W	99	282	5.8	98	288	5.4
X	96	129	7.3	94	126	7.4

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Oral and maxillofacial surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	107	2,035	10.1	106	2,067	10.0
B	109	37	12.8	109	37	12.8
C	108	291	10.2	104	293	8.2
D	108	327	9.4	103	332	7.3
E	106	303	11.0	105	313	10.5
F	107	242	12.0	107	242	12.0
G	109	228	9.8	108	235	9.4
H	108	74	10.1	107	77	9.3
I	107	1,214	10.2	105	1,276	9.5
J	110	105	9.6	107	105	9.0
K	107	173	12.7	105	182	11.7
L	110	123	11.8	108	118	11.4
M	90	323	11.3	90	323	11.3
N	106	337	11.3	105	326	10.8
O	100	335	9.8	99	337	9.8
P	110	332	8.9	109	333	8.9
Q	110	759	9.5	107	811	8.7
R	109	44	10.4	107	48	9.1
S	91	121	12.9	88	132	11.2
T	108	844	9.0	106	877	8.6
U	51	636	15.0	51	636	15.0
V	91	600	10.4	91	600	10.4
W	97	1,146	8.9	96	1,162	8.9

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Obstetrics and gynecology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	93	77	8.6	82	78	9.2
B	83	50	10.6	82	48	10.0
C	83	117	11.6	82	122	10.7
D	83	108	11.3	82	112	10.6
E	83	211	12.3	82	226	10.2
F	83	393	9.5	82	405	9.0
G	83	421	10.2	83	421	10.2
H	83	471	10.4	83	471	10.4
I	93	252	6.8	82	246	7.4
J	93	417	7.5	80	432	7.5
K	93	58	8.6	80	59	7.2
L	93	145	9.4	80	161	8.4
M	83	253	9.4	83	253	9.4
N	88	155	8.4	78	159	9.0
O	86	286	8.6	75	273	8.5
P	84	53	8.7	81	54	7.8
Q	84	400	8.8	83	397	8.9
R	56	204	16.6	55	224	12.9
S	66	212	9.7	66	212	9.7
T	83	107	11.9	81	109	9.7
U	94	81	8.5	82	80	8.4
V	93	477	8.0	81	474	8.2
W	47	225	11.3	45	227	11.8
X	93	98	9.3	80	101	8.2
Y	25	217	14.7	25	217	14.7
Z	82	117	10.7	79	123	9.9

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Ophthalmology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	71	2,805	10.1	68	2,771	10.2
B	101	65	14.4	93	64	11.9
C	100	108	13.5	92	101	11.2
D	101	204	12.8	93	194	10.3
E	95	1,468	10.0	88	1,431	8.4
F	100	147	12.9	95	146	13.5
G	89	138	16.1	85	164	12.9
H	73	251	14.6	72	271	12.1
I	86	1,021	11.1	83	962	10.0
J	95	1,960	8.9	90	2,078	8.4
K	95	1,198	10.6	90	1,073	8.7
L	95	1,611	10.1	89	1,619	9.0
M	58	2,274	10.3	58	2,274	10.3
N	69	1,141	12.2	68	1,088	11.2
O	91	161	15.1	87	187	11.9
P	84	109	14.2	82	117	13.4
Q	74	291	11.0	72	276	9.9
R	57	105	22.0	54	116	16.5
S	101	97	13.1	94	87	11.9
T	38	1,520	17.6	37	1,373	13.8
U	91	689	9.4	86	659	8.6

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Orthopedic surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	98	789	8.4	95	770	7.1
B	98	41	14.3	98	41	14.3
C	98	166	8.6	96	175	7.9
D	96	194	8.7	94	206	7.6
E	83	637	9.1	82	664	8.0
F	99	363	9.1	98	353	8.7
G	97	259	7.0	95	260	7.1
H	95	61	13.0	93	64	12.3
I	97	73	12.0	96	75	11.4
J	96	365	11.5	95	353	11.0
K	99	34	11.8	97	34	10.6
L	97	45	13.0	97	45	13.0
M	98	53	14.0	94	55	12.8
N	99	41	10.6	96	41	9.6
O	100	44	13.5	97	46	13.2
P	99	29	11.1	97	29	11.3
Q	99	31	12.1	98	31	12.2
R	100	39	10.2	99	38	10.3
S	68	133	12.6	67	139	11.6
T	80	816	9.1	80	816	9.1
U	99	33	12.4	97	35	12.0

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Otolaryngology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	726	7.9	100	715	7.8
B	106	22	10.4	105	22	10.4
C	106	35	10.9	103	37	10.5
D	107	68	7.2	105	68	7.3
E	87	139	8.1	86	135	7.5
F	98	511	8.3	97	504	8.3
G	106	147	7.8	103	144	6.7
H	104	638	6.9	101	621	6.8
I	107	81	11.6	105	82	11.8
J	106	22	12.7	103	21	12.3
K	92	34	11.7	90	34	11.8
L	102	753	7.9	99	749	6.9
M	106	342	9.0	104	328	8.6
N	106	82	12.5	105	81	12.5
O	78	267	8.3	76	272	7.9
	19	495	23.0	17	481	25.9
Q	29	928	15.7	27	893	16.7
R	105	113	8.5	104	111	8.5
S	96	76	15.4	94	79	14.8
T	106	176	6.1	104	177	5.5
U	105	45	12.5	101	50	10.8

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Pathology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	117	419	7.8	112	400	7.5
B	119	109	8.9	115	109	8.8
C	119	867	8.2	113	822	6.8
	17	298	33.1	17	298	33.1
E	119	289	7.1	114	289	6.1
F	93	192	9.4	89	191	7.1
G	116	443	8.9	112	429	6.8
H	112	232	9.7	108	221	7.6
I	119	613	7.8	113	582	6.2
J	108	564	7.9	104	539	5.9
K	93	568	9.5	89	535	7.6
L	119	380	7.7	113	357	6.5
M	119	362	7.9	113	327	6.7
N	98	490	9.3	94	465	7.2
O	119	721	8.1	111	659	6.0
P	85	362	13.4	81	339	11.0
Q	119	371	7.1	113	354	5.5
R	111	130	9.0	108	131	7.1

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Pediatrics

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	90	780	9.7	88	733	8.7
B	104	48	9.0	99	56	5.4
C	104	108	7.0	100	111	6.0
D	104	109	6.9	100	112	5.9
E	104	124	7.1	101	124	6.5
F	102	142	7.3	99	139	6.4
G	103	398	6.7	102	385	5.9
H	103	338	6.1	102	327	5.1
I	104	329	7.1	99	312	5.5
J	102	234	8.6	101	222	6.6
K	90	518	9.1	88	480	6.9
L	103	336	10.2	98	342	6.3
M	94	177	9.3	93	187	7.3
N	101	299	7.0	100	293	6.7
O	102	216	6.8	100	207	6.2
P	92	176	6.6	91	180	6.2
Q	91	67	10.1	89	74	7.4
R	103	107	5.4	100	106	4.7
S	104	216	6.2	102	209	5.4
T	104	112	6.4	103	113	6.4
U	103	188	6.5	100	197	5.5

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Psychiatry

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	320	6.8	97	334	6.0
B	100	113	9.4	100	113	9.4
C	104	89	4.8	94	94	3.5
D	102	197	4.9	99	193	4.7
E	99	122	6.9	97	125	6.5
F	101	72	6.8	100	72	6.9
G	103	75	7.4	99	74	7.6
H	102	101	4.6	98	101	4.3
I	99	137	6.9	94	145	5.2
J	88	129	7.4	87	133	6.8
K	90	125	6.5	89	123	6.1
L	98	244	4.6	97	240	4.4
M	102	214	5.0	98	211	5.0
N	103	213	4.8	97	210	4.4
O	101	107	5.3	100	107	5.4
P	63	203	9.4	63	203	9.4
Q	98	274	8.9	94	291	5.6
R	99	87	10.6	95	96	8.4
S	104	167	4.2	99	165	4.2
T	99	202	5.5	96	204	5.6
U	96	95	6.1	91	95	5.4
V	98	233	5.6	97	233	5.7
W	98	175	5.7	95	175	5.1
X	94	119	7.5	92	120	6.6

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Radiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	1,037	8.9	92	951	6.5
B	120	68	8.5	117	70	8.3
C	120	46	7.7	115	49	6.6
D	120	153	4.8	116	156	4.3
E	108	120	6.4	105	128	5.2
F	109	168	8.7	105	180	6.1
G	104	248	8.3	101	256	7.0
H	93	399	11.1	89	428	7.5
I	120	40	8.0	116	41	7.4
J	113	182	7.9	111	188	7.5
K	49	222	8.1	48	220	8.1
L	120	54	7.2	115	57	6.3
M	119	187	7.2	115	189	6.3
N	115	216	7.3	113	209	6.5
O	120	47	7.6	116	46	7.3
P	46	38	15.8	45	41	13.3
Q	120	52	7.2	114	53	6.2
R	102	141	8.3	100	147	7.7
S	107	350	7.5	104	347	6.7
T	120	48	7.8	117	49	7.9
U	103	117	8.4	102	118	8.4

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Rheumatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	119	577	6.7	117	567	6.5
B	118	70	9.2	117	69	9.2
C	118	275	6.2	117	274	6.2
D	118	392	7.9	115	419	5.6
E	118	159	8.7	114	169	7.8
F	103	85	9.7	101	88	8.7
G	118	160	8.3	115	166	7.7
H	119	240	7.3	116	237	6.7
I	118	260	5.3	114	263	4.7
J	118	236	5.8	116	233	5.4
K	119	552	6.3	118	552	6.4
L	73	70	15.0	71	79	12.2
M	118	161	5.7	114	164	5.1
N	119	110	6.1	116	109	5.5
O	118	278	6.3	115	278	5.7
P	117	36	10.7	113	40	9.3
Q	119	83	7.9	118	82	7.9
R	116	39	10.6	114	40	10.2

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data:
Thoracic and cardiovascular surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	77	1,025	11.9	76	1,084	10.5
B	92	54	9.4	87	56	8.4
C	91	11	15.1	87	12	15.2
D	77	658	9.7	74	639	7.9
E	76	25	16.4	76	25	16.4
F	90	44	18.0	87	41	17.2
G	85	71	10.4	82	72	10.6
H	89	376	9.0	85	355	7.9
I	77	566	9.1	74	539	8.1
J	89	174	10.2	86	167	8.6
K	86	45	16.4	83	42	15.4
L	91	44	11.6	86	46	11.1
M	87	116	13.9	82	135	11.4
N	83	42	14.8	81	41	14.7
O	75	438	10.6	70	390	8.7
P	56	546	10.6	54	548	8.8
Q	80	246	11.2	76	245	9.9
R	91	155	10.6	85	153	9.4
S	84	570	10.5	80	581	8.7
T	77	716	10.5	76	741	10.0
U	77	44	17.4	76	42	16.8

NOTE: N* indicates the number of physicians surveyed.

Table K.12 continued

Intra-service ratings of stress due to risk.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Urology

Task	Raw data			Edited data		
	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	110	2,787	8.9	110	2,787	8.9
B	112	44	15.1	112	44	15.1
C	112	610	8.1	110	638	7.5
D	112	155	10.4	111	163	9.2
E	98	837	9.2	98	837	9.2
F	110	110	13.6	107	125	11.1
G	112	150	12.2	110	165	10.2
H	112	981	8.2	112	981	8.2
I	108	119	4.7	103	110	3.4
J	112	126	12.1	109	134	9.7
K	51	501	11.9	51	501	11.9
L	84	1,404	10.6	84	1,404	10.6
M	65	792	11.7	65	792	11.7
N	112	1,132	8.0	112	1,132	8.0
O	112	99	10.6	109	105	8.2
P	96	88	10.7	95	92	9.5
Q	112	240	6.2	110	250	5.6
R	71	53	16.3	69	59	14.1
S	105	185	12.4	102	199	9.4
T	71	396	10.0	71	396	10.0
U	95	380	9.1	93	377	7.9

NOTE: N* indicates the number of physicians surveyed.

Table K.13

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Allergy and immunology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	104	394	7.5	103	382	6.8
B	107	134	5.6	104	133	5.0
C	100	217	7.9	99	209	6.9
D	103	239	7.5	102	231	6.5
E	103	483	6.2	102	494	5.8
F	110	395	5.4	109	396	5.4
G	101	99	9.6	101	99	9.6
H	110	136	6.8	109	136	6.9
I	40	290	11.6	40	290	11.6
J	58	381	9.0	58	381	9.0
K	106	254	7.1	105	256	7.1
L	108	450	7.3	106	427	5.7
M	100	179	8.9	99	169	6.4
N	111	397	5.6	109	402	5.5
O	111	273	5.0	110	272	5.1
P	111	277	6.2	109	271	5.7
Q	87	101	8.6	85	103	8.3
R	99	499	6.5	97	502	5.9

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Anesthesiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	86	641	5.3	85	629	5.0
B	116	87	4.1	115	88	3.9
C	117	232	3.7	117	232	3.7
D	116	277	3.8	116	277	3.8
E	113	141	4.1	110	139	3.4
F	117	192	3.9	114	185	3.4
G	116	290	3.8	114	284	3.5
H	102	196	5.4	101	193	5.2
I	116	108	2.9	114	106	2.6
J	116	228	4.1	115	233	3.7
K	114	512	4.5	113	504	4.3
L	117	81	3.8	113	83	3.2
M	112	161	5.5	111	163	5.2
N	100	211	6.1	100	211	6.1
O	117	183	3.8	116	185	3.7
P	116	370	4.2	116	370	4.2
Q	113	113	4.0	112	111	3.8
R	115	169	4.6	115	169	4.6
S	117	167	3.7	115	163	3.4
T	101	457	4.8	100	451	4.6
U	112	285	4.4	112	285	4.4
V	107	139	5.5	107	139	5.5

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Dermatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	97	376	7.2	96	386	6.7
B	94	181	7.0	91	184	6.0
C	97	225	4.8	96	221	4.5
D	85	125	8.0	85	125	8.0
E	97	204	5.3	97	204	5.3
F	97	107	7.9	96	110	7.5
G	98	105	3.6	93	102	2.8
H	93	96	8.2	93	96	8.2
I	27	273	14.9	27	273	14.9
J	97	207	5.9	97	207	5.9
K	52	143	9.3	52	143	9.3
L	96	210	6.1	93	216	4.9
M	94	400	7.3	93	411	6.8
N	90	571	8.6	89	554	8.1
O	91	151	6.7	91	151	6.7
P	96	324	5.9	95	317	5.4
Q	22	263	14.6	22	263	14.6
R	97	258	6.0	97	258	6.0
S	54	383	13.2	53	360	11.6
T	97	327	5.6	96	321	5.3
U	92	360	7.1	92	360	7.1

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Family practice

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	103	310	5.3	102	305	5.1
B	104	59	5.9	103	58	5.6
C	104	150	6.4	104	150	6.4
D	41	491	13.7	41	491	13.7
E	87	182	6.7	86	186	6.3
F	99	169	6.3	97	176	5.6
G	30	760	15.2	30	760	15.2
H	65	574	9.7	65	574	9.7
I	101	44	7.0	101	44	7.0
J	101	49	7.5	101	49	7.5
K	78	265	8.3	76	270	6.6
L	105	102	4.7	102	100	4.2
M	105	92	5.8	103	92	5.2
N	105	129	5.0	102	128	4.4
O	105	151	4.4	104	149	4.1
P	105	253	4.2	104	249	4.0
Q	105	215	4.5	103	215	4.1
R	100	106	5.8	100	106	5.8
S	101	228	4.4	101	228	4.4
T	102	406	6.4	98	374	5.1
U	101	286	5.6	100	280	5.2
V	101	350	5.5	101	350	5.5
W	104	115	5.2	100	111	4.2
X	104	158	7.0	104	158	7.0
Y	97	109	7.0	96	107	6.7

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: General surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	72	838	9.0	68	725	4.9
B	96	58	8.9	93	57	7.9
C	39	47	17.0	37	43	15.3
D	100	295	5.5	98	286	5.1
E	95	142	7.6	93	134	6.6
F	33	82	9.7	33	82	9.7
G	100	487	7.1	96	435	3.9
H	100	149	5.6	96	142	4.0
I	99	28	7.4	97	28	7.6
J	55	139	11.8	53	126	9.1
K	100	254	5.7	96	234	3.8
L	60	292	9.3	57	257	5.3
M	57	94	14.6	53	90	7.7
N	80	63	11.3	78	61	10.6
O	88	84	11.5	86	79	10.8
P	70	62	13.6	68	56	11.6
Q	100	22	12.5	98	21	11.8
R	100	26	12.4	98	25	12.2
S	99	63	12.2	97	58	11.3
T	98	70	11.4	96	65	10.2
U	99	22	12.6	97	21	12.2
V	93	188	12.7	91	172	10.8
W	99	116	12.1	97	108	10.7
X	72	85	11.7	70	78	10.3
Y	96	212	12.3	93	205	10.7

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Internal medicine

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	516	5.6	100	519	5.6
B	101	92	6.2	99	94	5.8
C	93	138	7.9	92	142	7.4
D	89	167	7.5	87	169	6.5
E	86	39	8.9	83	41	7.0
F	101	222	5.7	99	217	5.5
G	100	409	5.2	99	403	5.0
H	100	93	6.8	98	95	6.1
I	100	136	4.9	98	137	4.2
J	100	227	5.1	97	230	4.3
K	101	312	5.3	99	307	5.1
L	100	255	5.1	98	247	4.6
M	100	329	5.4	100	329	5.4
N	100	150	5.2	99	153	4.8
O	101	179	5.2	100	181	5.1
P	93	97	5.6	92	99	5.1
Q	94	260	5.2	93	264	4.9
R	100	339	5.5	100	339	5.5
S	101	163	4.6	100	162	4.6
T	101	130	7.1	99	134	6.7
U	100	83	7.5	99	83	7.6
V	100	104	7.1	99	102	6.8
W	99	206	6.6	97	215	5.9
X	96	118	6.7	94	115	6.6

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Oral and maxillofacial surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	108	2,212	9.6	107	2,247	9.6
B	109	39	9.3	107	42	7.9
C	108	305	7.4	106	303	6.6
D	108	335	7.4	107	326	6.9
E	106	226	8.2	103	209	6.8
F	107	169	9.8	105	159	8.9
G	109	229	8.0	106	235	6.7
H	109	77	8.2	108	75	7.9
I	108	1,340	8.9	107	1,359	8.9
J	110	108	7.7	109	108	7.8
K	107	194	9.4	106	195	9.4
L	110	93	10.1	108	90	9.8
M	91	241	9.2	90	235	8.8
N	106	245	9.1	105	238	8.6
O	100	367	8.7	98	360	8.2
P	110	433	8.1	108	448	7.7
Q	110	925	8.2	109	936	8.2
R	109	47	8.1	109	47	8.1
S	91	126	8.9	89	122	8.5
T	108	903	8.2	107	914	8.2
U	52	709	12.1	52	709	12.1
V	90	664	9.7	90	664	9.7
W	97	1,152	9.1	95	1,138	8.7

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Obstetrics and gynecology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	92	117	8.3	80	116	8.7
B	82	50	9.9	82	50	9.9
C	82	129	9.4	81	134	8.9
D	82	98	9.6	82	98	9.6
E	82	230	9.6	82	230	9.6
F	82	375	8.9	82	375	8.9
G	82	395	9.8	82	395	9.8
H	82	452	9.4	82	452	9.4
I	92	288	6.7	81	284	7.4
J	92	484	6.9	81	482	7.7
K	92	64	7.4	80	63	7.0
L	92	123	8.6	81	128	8.7
M	82	238	9.2	82	238	9.2
N	87	163	7.4	77	164	8.2
O	85	252	7.7	74	249	7.4
P	83	56	8.0	82	57	7.9
Q	83	375	9.2	82	384	8.9
R	55	205	11.3	55	205	11.3
S	64	161	9.6	64	161	9.6
T	81	75	9.8	80	73	9.3
U	93	93	8.9	82	96	9.5
V	92	549	7.6	80	553	7.7
W	47	179	10.4	45	182	10.8
X	92	143	8.1	80	143	8.5
Y	25	208	12.0	25	208	12.0
Z	81	125	9.4	79	127	9.6

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Ophthalmology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	70	2,783	9.6	67	2,776	9.4
B	102	98	10.9	94	90	9.6
C	102	166	11.0	93	148	9.3
D	102	275	9.2	92	257	7.3
E	97	1,428	9.5	88	1,325	7.0
F	101	135	11.4	93	128	11.0
G	90	174	9.7	86	173	8.0
H	73	270	11.6	71	269	9.3
I	86	966	9.4	80	937	7.1
J	97	1,912	10.2	88	1,882	7.7
K	95	1,282	8.8	88	1,125	6.1
L	96	1,537	9.6	86	1,532	7.3
M	58	2,125	15.1	55	2,264	9.6
N	69	1,113	11.8	66	981	9.3
O	89	255	9.5	84	243	7.2
P	83	105	11.7	82	107	11.7
Q	73	281	10.0	71	264	7.9
R	57	132	12.7	56	124	10.8
S	101	92	11.4	93	83	9.2
T	38	1,189	14.4	36	1,151	9.7
U	92	746	9.7	84	711	7.9

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Orthopedic surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	98	842	7.0	96	799	6.0
B	98	37	13.4	98	37	13.4
C	98	207	7.0	97	202	6.6
D	96	312	8.2	94	313	7.0
E	82	648	7.5	81	632	7.1
F	99	451	7.6	98	440	7.3
G	97	287	7.5	93	271	6.6
H	95	71	11.2	93	68	10.7
I	97	78	11.3	96	75	10.8
J	96	241	12.8	96	241	12.8
K	99	40	11.2	98	39	10.7
L	98	32	12.9	98	32	12.9
M	98	48	11.3	95	47	11.0
N	99	47	10.3	97	45	10.0
O	100	34	13.1	97	33	12.6
P	99	24	12.1	96	23	11.7
Q	99	25	12.2	97	24	11.8
R	100	33	8.7	99	33	8.7
S	67	111	13.0	66	116	12.1
T	79	808	8.7	78	782	8.2
U	99	26	12.6	97	25	11.9

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Otolaryngology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	101	1,036	6.4	98	1,020	5.3
B	106	26	9.8	105	26	9.7
C	106	46	9.7	104	46	9.8
D	107	77	5.3	105	77	5.4
E	87	159	6.8	86	154	6.2
F	98	557	7.9	94	505	6.3
G	106	156	6.2	105	153	6.0
H	104	660	6.5	99	681	5.0
I	107	75	10.8	105	76	10.9
J	106	25	11.6	103	25	11.1
K	92	40	12.1	90	40	12.2
L	102	733	7.6	98	774	6.0
M	106	293	7.5	103	274	6.4
N	106	64	11.1	105	64	11.1
O	79	280	6.8	78	274	6.5
	20	764	17.0	18	757	19.1
Q	29	1,100	14.2	26	1,182	12.0
R	105	108	8.3	101	105	5.4
S	96	80	12.6	95	79	12.7
T	106	200	5.3	102	207	4.3
U	105	48	9.6	103	49	8.9

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Pathology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	117	865	7.9	111	825	6.8
B	119	62	7.2	113	58	6.7
C	119	716	7.3	115	675	6.6
	17	336	25.9	17	336	25.9
E	119	289	6.7	115	281	6.4
F	95	214	7.8	93	204	7.2
G	116	378	7.4	113	372	6.4
H	112	212	8.0	109	206	7.0
I	119	573	7.4	114	564	6.2
J	108	537	5.8	106	517	5.2
K	93	548	9.4	90	502	7.9
L	119	400	5.7	114	376	5.1
M	119	448	6.4	114	422	5.8
N	98	460	9.0	95	424	7.7
O	119	593	7.3	115	568	6.8
P	84	236	11.5	81	214	10.1
Q	119	325	5.6	115	311	5.2
R	111	144	7.0	109	140	6.6

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Pediatrics

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	91	725	8.0	90	724	8.1
B	105	62	6.4	102	60	6.2
C	105	165	5.6	101	166	5.1
D	105	178	5.8	101	179	5.3
E	105	210	6.5	101	209	5.9
F	103	240	6.8	99	234	5.9
G	104	452	6.9	100	419	5.6
H	104	357	6.6	101	335	5.2
I	105	287	6.9	100	268	5.9
J	103	173	8.0	99	175	6.0
K	90	438	8.4	86	423	6.8
L	104	405	7.2	100	379	5.7
M	96	176	7.7	94	182	7.4
N	102	326	6.8	97	318	5.3
O	103	312	7.0	99	287	5.3
P	93	205	6.0	92	204	6.1
Q	92	75	7.1	87	79	5.7
R	104	106	5.0	100	107	4.4
S	105	275	6.3	101	259	5.0
T	105	87	6.1	103	88	6.2
U	104	182	6.9	99	186	6.0

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Psychiatry

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	282	5.9	99	282	5.9
B	100	80	8.0	98	81	7.1
C	104	103	3.5	89	103	1.3
D	102	194	4.0	99	196	3.9
E	99	155	5.2	98	155	5.3
F	101	66	5.0	100	66	5.0
G	103	117	4.9	96	119	4.2
H	102	110	4.7	99	113	4.3
I	99	153	4.4	98	154	4.5
J	88	183	5.6	88	183	5.6
K	90	160	4.6	89	157	4.3
L	98	218	4.5	97	215	4.3
M	102	199	4.5	99	198	4.6
N	103	198	4.8	99	203	4.6
O	101	83	5.3	99	81	5.1
P	63	136	10.2	63	136	10.2
Q	98	306	5.7	96	312	5.5
R	100	160	6.2	98	162	6.3
S	104	159	4.4	99	161	4.3
T	99	205	5.0	96	206	5.1
U	96	135	5.0	92	133	4.9
V	98	248	4.9	97	247	4.9
W	98	183	5.4	97	183	5.4
X	94	140	5.8	93	143	5.5

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Radiology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	99	856	6.5	94	843	5.4
B	120	45	7.0	117	46	6.9
C	120	46	5.9	116	48	5.3
D	120	144	4.6	113	144	3.4
E	108	171	5.2	106	172	4.5
F	109	182	7.7	106	190	5.3
G	104	221	5.9	103	226	5.4
H	93	338	10.1	90	355	6.9
I	120	31	6.6	115	33	6.0
J	113	123	6.2	112	124	6.2
K	50	239	8.3	49	236	8.3
L	120	49	6.0	114	52	4.8
M	119	134	5.5	113	135	4.3
N	115	167	6.2	113	171	6.1
O	120	46	5.9	116	47	5.5
P	45	49	13.8	45	49	13.8
Q	120	50	5.6	116	50	5.1
R	101	140	7.3	97	152	6.2
S	107	304	6.1	103	306	5.2
T	120	40	6.1	115	40	5.6
U	103	99	7.6	100	105	6.9

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors
estimated using unedited data and edited data: Rheumatology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	119	635	6.1	118	625	6.0
B	119	82	7.3	118	82	7.4
C	118	357	5.6	116	357	5.1
D	118	482	5.6	116	467	5.2
E	118	138	7.2	117	136	7.2
F	104	110	9.0	102	114	7.6
G	118	122	6.8	117	121	6.8
H	119	304	6.7	116	298	5.8
I	118	206	5.4	115	200	4.7
J	118	240	5.5	114	233	4.7
K	119	594	6.2	117	575	5.8
L	74	79	13.9	72	89	10.7
M	118	175	5.2	116	171	5.0
N	119	114	5.9	116	112	5.2
O	118	322	5.5	114	323	4.6
P	117	38	8.4	116	37	8.5
Q	119	71	7.1	118	71	7.2
R	116	33	8.6	114	34	8.4

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Thoracic and cardiovascular surgery

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	77	1,072	9.6	74	974	8.0
B	92	47	7.8	87	46	7.2
C	92	14	11.2	88	13	11.4
D	77	729	8.8	73	681	6.5
E	79	27	15.5	78	25	13.2
F	91	52	14.2	87	51	11.8
G	86	77	7.9	82	75	7.7
H	90	440	9.9	84	403	6.4
I	77	553	9.7	73	537	7.5
J	90	146	10.4	87	136	7.9
K	87	52	13.4	83	49	10.0
L	92	40	8.8	87	39	8.8
M	88	83	10.8	86	84	11.0
N	84	45	14.7	82	42	12.3
O	76	426	12.1	72	403	8.6
P	56	574	9.3	56	574	9.3
Q	80	236	10.5	77	219	8.9
R	91	127	8.0	87	125	8.1
S	84	649	8.5	80	610	7.6
T	77	770	9.9	74	697	8.2
U	78	52	15.3	76	51	12.4

NOTE: N* indicates the number of physicians surveyed.

Table K.13 continued

Intra-service ratings of intensity.
Geometric means and approximate percent standard errors estimated using unedited data and edited data: Urology

	Raw data			Edited data		
Task	N*	Geometric mean	Percent standard error	N*	Geometric mean	Percent standard error
A	109	2,943	8.2	109	2,943	8.2
B	111	56	13.0	109	60	12.0
C	111	617	7.3	108	579	6.4
D	111	130	9.8	110	127	9.4
E	97	783	8.8	97	783	8.8
F	108	139	9.6	104	125	8.1
G	111	143	9.9	110	138	9.4
H	110	1,046	7.1	110	1,046	7.1
I	107	116	4.4	100	105	2.4
J	111	157	9.1	110	152	8.7
K	51	576	9.7	51	576	9.7
L	84	1,428	9.6	83	1,474	9.1
M	66	976	9.9	66	976	9.9
N	110	1,003	8.2	109	1,026	7.9
O	111	119	9.2	108	110	8.0
P	95	126	8.7	95	126	8.7
Q	111	261	5.8	109	262	5.2
R	72	65	12.8	72	65	12.8
S	104	194	9.8	102	182	8.8
T	70	440	10.6	69	461	9.6
U	94	303	7.1	91	298	6.0

NOTE: N* indicates the number of physicians surveyed.

Appendix L

Documentation of Cross Specialty Links

Appendix L

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Appendix L

Documentation of cross-specialty links

The development and review of cross specialty links began in December of 1986. The following list documents the time in which a link was developed (origin) and the time of its acceptance or rejection.

Cross specialty links were reviewed by panelists in December 1986, December 1987, and February 1988. After each meeting links were classified according to whether they were accepted, rejected or not reviewed by panelists. Cross specialty links were then carefully reviewed by the RBRVS staff and a list of accepted links was developed.

Rejected links include links rejected by panelists and staff on a clinical basis; links whose times showed more than a 25% discrepancy; links which involved a service selected to be in another link; and links for which the deviations from the compromise locations were conspicuous outliers.

Appendix L continued

Documentation of cross specialty links

Allergy and Immunology

Accepted links

Same	Origin	Status of Link
ai Q ; pa F	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
Equivalent		
ai * ; op B	(2/88)	Accepted by panel and staff 2/88
ai B ; rh *	(2/88)	Accepted by panel and staff 2/88
ai F ; rh O	(2/88)	Accepted by panel and staff 2/88
ai I ; dm A	(10/87)	Accepted by panel and staff 12/87
ai P ; an V	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
ai * ; ob P	(2/88)	Accepted by panel and staff 2/88, deleted because ai * is involved in another link
ai B ; pe *	(12/86)	Deleted, surveyed time differs by more than 25%, 9/87
ai B ; fp L	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
ai E ; fp A	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
ai F ; pe S	(12/86)	Rejected by panel 12/86
ai N ; dm R	(12/86)	Rejected by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
ai O ; fp O	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
ai O ; im I	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Appendix L continued

Documentation of cross specialty links

Allergy and Immunology

Rejected links

Same	Origin	Status of Link
ai R ; im M	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
Equivalent		
ai B ; mx B	(2/88)	Accepted by panel and staff 2/88, deleted, surveyed time differs by more than 25%, 4/88
ai L ; pa A	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel 2/88, rejected by staff 4/88
ai R ; an F	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel and staff 2/88

Appendix L continued

Documentation of cross specialty links

Anesthesiology

Accepted links

Same	Origin	Status of Link
an H ; gs X	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
an K ; ob H	(12/87)	Rejected by panel 12/87, accepted by panel and staff 2/88
an L ; pe I	(10/87)	Accepted by panel and staff 12/87
an U ; im A	(10/87)	Rejected by panel 12/87, accepted by staff 12/87
an V ; ai P	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
an V ; pa N	(12/86)	Rejected by staff and panel 12/86 and 12/87
an Q ; gs C	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
Equivalent		
an E ; or I	(10/87)	Not reviewed by panel 12/87, rejected by staff 12/87, rejected by panel 2/88
an E ; gs P	(10/87)	Rejected by staff and panel 12/87
an F ; ai R	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel and staff 2/88
an L ; or M	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
an P ; ob G	(12/87)	Rejected by panel 12/87, rejected by panel and staff 2/88
an T ; ob H	(12/87)	Rejected by panel 12/87, rejected by panel and staff 2/88

Documentation of cross specialty links

Dermatology

Accepted links

Same	Origin	Status of Link
dm G ; fp B	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
dm H ; fp J	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87
Equivalent		
dm * ; pe *	(12/87)	Accepted by panel and staff 12/87
dm A ; ai I	(10/87)	Accepted by panel and staff 12/87
dm M ; ur I	(12/87)	Accepted by panel and staff 12/87

Rejected links

Same		
dm C ; ob U	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
dm E ; mx L	(12/87)	Accepted by panel and staff 12/87, deleted because mx L is involved in another link, 4/88
dm R ; ai N	(12/86)	Rejected by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Appendix L continued

Documentation of cross specialty links

Family Practice

Accepted links

Same	Origin	Status of Link
fp * ; im *	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp B ; dm G	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp C ; pe P	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp E ; im D	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp J ; dm H	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87
fp K ; ob C	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp M ; im H	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp M ; pe R	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp N ; ob K	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp O ; im I	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp P ; gs S	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp P ; im J	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp P ; ob L	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp Q ; im L	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87

Documentation of cross specialty links

Family Practice

Accepted links

Same	Origin	Status of Link
fp R ; im P	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp V ; gs W	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp W ; pe C	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
fp Y ; im X	(12/86)	Accepted by panel and staff 12/87
Equivalent		
fp P ; ur J	(10/87)	Accepted by panel and staff 12/87

Rejected links

Same		
fp A ; ai E	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
fp D ; gs H	(12/86)	Accepted by panel 12/86, deviations from the compromise locations were conspicuous outliers, 11/87
fp E ; gs I	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
fp G ; gs L	(12/86)	Accepted by panel 12/86 and 12/87, accepted by panel and staff 12/87, deviations from the compromise locations were conspicuous outliers, 4/88
fp H ; ob M	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
fp I ; im E	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
fp I ; pe Q	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87

fp L ; ai B	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Documentation of cross specialty links

Family Practice

Rejected links

Same	Origin	Status of Link
fp L ; pe *	(12/86)	Accepted by panel 12/86, deviations from the compromise locations were conspicuous outliers, 4/88
fp M ; op S	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
fp O ; ai O	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
fp S ; im Q	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
fp V ; im G	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, deleted, surveyed time differs by more than 25%, 4/88
fp X ; im W	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
Equivalent		
fp C ; pa B	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
fp K ; ot S	(10/87)	Rejected by panel and staff 12/87
fp Q ; ot N	(10/87)	Accepted by panel and staff 12/87, rejected by panelist and staff 1/88

Documentation of cross specialty links

General Surgery

Accepted links

Same	Origin	Status of Link
gs A ; ts S	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs B ; ts B	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs E ; ts R	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs F ; ot *	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs M ; or *	(12/86)	Accepted by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel and staff 2/88
gs P ; or I	(12/86)	Accepted by panel 12/86, Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel and staff 2/88
gs S ; fp P	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs S ; ob L	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs S ; im J	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs W ; fp V	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
gs X ; an H	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
gs G ; ts H	(10/87)	Accepted by panel and staff 12/87
gs S ; ur J	(10/87)	Accepted by panel and staff 12/87
gs U ; ur B	(10/87)	Accepted by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

General Surgery

Rejected links

Same	Origin	Status of Link
gs C ; an Q	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs E ; ot M	(12/86)	Accepted by panel 12/86, deviations from compromise locations were conspicuous outliers, 4/88
gs H ; fp D	(12/86)	Accepted by panel 12/86, deviations from compromise locations were conspicuous outliers, 11/87
gs I ; fp E	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs I ; im D	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs L ; ob J	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, deviations from the compromise locations were conspicuous outliers, 4/88
gs L ; fp G	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, deviations from the compromise locations were conspicuous outliers, 4/88
gs M ; ot R	(10/87)	Rejected by panel and staff and staff 12/87
gs N ; op U	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs P ; rh O	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs V ; or J	(12/86)	Accepted by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel and staff 2/88
Equivalent		
gs * ; mx P	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs D ; mx T	(10/87)	Rejected by panel and staff 12/87

Documentation of cross specialty links

General Surgery

Rejected links

Equivalent		
gs P ; an E	(10/87)	Rejected by panel and staff 12/87
gs Q ; pa Q	(10/87)	Rejected by panel 12/87, accepted by staff 12/87, rejected by staff 4/88
gs U ; pa *	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
gs W ; im G	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, deleted, surveyed time differs by more than 25%, 4/88

Appendix L continued

Documentation of cross specialty links

Internal Medicine

Accepted links

Same	Origin	Status of Link
im * ; fp *	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im B ; ot B	(12/86)	Accepted panel 12/86, accepted by panel and staff and 12/87
im C ; or R	(12/86)	Rejected by panel 12/86, not reviewed by panel 12/87, accepted by panel 2/88
im C ; rh E	(12/86)	Rejected by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
im D ; fp E	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im H ; fp M	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im H ; pe R	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im I ; fp O	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im J ; fp P	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im J ; gs S	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im J ; ob L	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im L ; fp Q	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im P ; fp R	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
im S ; ur O	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

Internal Medicine

Accepted links

Same	Origin	Status of Link
im X ; fp Y	(12/86)	Accepted by panel and staff 12/87
Equivalent		
im A ; an U	(10/87)	Rejected by panel 12/87, accepted by staff 12/87
im F ; py *	(4/88)	Accepted by panel and staff 4/88
im G ; py L	(4/88)	Accepted by panel and staff 4/88
im J ; ur J	(10/87)	Accepted by panel and staff 12/87
im K ; ts N	(10/87)	Rejected by panel 12/87, accepted by staff 12/87
im N ; py F	(4/88)	Accepted by panel and staff 4/88

Rejected links

Same		
im D ; gs I	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
im E ; fp I	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
im E ; pe Q	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
im F ; ur G	(12/86)	Rejected by panel and staff 12/87
im G ; fp V	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, Deleted, surveyed time differs by more than 25%, 4/88
im G ; gs W	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, Deleted, surveyed time differs by more than 25%, 4/88
im H ; op S	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

Internal Medicine

Rejected links

Equivalent	Origin	Status of Link
im B ; pa B	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
im F ; pa J	(10/87)	Rejected by panel and staff 12/87
im I ; ai O	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
im L ; ot N	(10/87)	Accepted by panel and staff 12/87 rejected by panelist and staff 1/88
im M ; ai R	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
im Q ; fp S	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
im U ; pa *	(12/86)	Accepted by panel 12/86, deviations from the compromise locations were conspicuous outliers, 4/88
im V ; pa B	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
im W ; fp x	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Documentation of cross specialty links

Obstetrics and Gynecology

Accepted links

Same	Origin	Status of Link
ob C ; fp K	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ob K ; fp N	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ob L ; im J	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ob L ; fp P	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ob L ; gs S	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
ob * ; ot D	(10/87)	Accepted by panel and staff 12/87
ob A ; ot I	(10/87)	Accepted by panel and staff 12/87
ob H ; an K	(12/87)	Rejected by panel 12/87, accepted by panel and staff 2/88
ob L ; ur J	(10/87)	Accepted by panel and staff 12/87
ob O ; ur Q	(10/87)	Accepted by panel and staff 12/87
ob S ; ts L	(10/87)	Accepted by panel and staff 12/87

Rejected links

Same		
ob J ; gs L	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87, deviations from the compromise locations were conspicuous outliers, 4/88
ob M ; fp H	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Appendix L continued

Documentation of cross specialty links

Obstetrics and Gynecology

Rejected links

Same	Origin	Status of Link
ob R ; ra G	(12/86)	Rejected by panel 12/86
ob U ; dm C	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
Equivalent		
ob C ; ot S	(10/87)	Rejected by panel and staff 12/87
ob G ; an P	(12/87)	Rejected by panel 12/87, rejected by panel and staff 2/8
ob H ; an T	(12/87)	Rejected by panel 12/87, rejected by panel and staff 2/8
ob K ; pa F	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
ob P ; ai *	(2/88)	Accepted by panel and staff 2/88, deleted because ai * is involved in another link 4/88
ob P ; pa E	(12/87)	Accepted by panel and staff 12/87, deleted because pa E is involved in another link

Appendix L continued

Documentation of cross specialty links

Ophthalmology

Accepted links

Equivalent	Origin	Status of Link
op A ; ur L	(10/87)	Rejected by panel 12/87, accepted by staff 12/87
op B ; ai *	(2/88)	Accepted by panel and staff 2/88
op C ; pe F	(10/87)	Accepted by panel and staff 12/87
op E ; ur C	(10/87)	Accepted by panel and staff 12/87
op H ; ra R	(2/88)	Accepted by panel and staff 2/88
op P ; pa H	(2/88)	Accepted by panel and staff 2/88
op Q ; ra N	(10/87)	Accepted by panel and staff 12/87
op R ; ur R	(10/87)	Accepted by panel and staff 12/87

Rejected links

Same		
op S ; fp M	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
op S ; im H	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
op S ; pe R	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
op U ; gs N	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
op U ; gs N	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
Equivalent		
op P ; ra J	(2/88)	Accepted by panel and staff 2/88, deleted because op P is involved in another link, 4/88
op S ; pa B	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Appendix L continued

Documentation of cross specialty links

Oral and Maxillofacial Surgery

Accepted links

Same	Origin	Status of Link
mx O ; ot T	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
mx A ; ot A	(10/87)	Accepted by panel and staff 12/87
mx L ; pa E	(2/88)	Accepted by panel and staff 2/88
mx P ; or G	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87

Rejected links

Same		
mx I ; or T	(10/87)	Rejected by panel and staff 12/87
Equivalent		
mx B ; ai B	(2/88)	Accepted by panel and staff 2/88, deleted, surveyed time differs by more than 25%, 4/88
mx L ; dm E	(12/87)	Accepted by panel and staff 12/87, deleted because mx L is involved in another link, 4/88
mx P ; gs *	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
mx R ; pa R	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel 2/88
mx S ; ra G	(10/87)	Rejected by panel and staff 12/87
mx T ; gs D	(10/87)	Rejected by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

Orthopedic Surgery

Accepted links

Same	Origin	Status of Link
or * ; gs M	(12/86)	Accepted by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel and staff 2/88
or I ; gs P	(12/86)	Accepted by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel and staff 2/88
or R ; im C	(12/86)	Rejected by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
or R ; rh E	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
or S ; ra S	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
Equivalent		
or G ; mx P	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87
or H ; pe O	(02/88)	Accepted by panel and staff 2/88
or K ; rh N	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
or Q ; rh B	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
or E ; ts O	(10/87)	Not reviewed by panel 12/87, rejected by panel 12/87, accepted by staff 12/87, not reviewed by panel 2/88, rejected by staff 4/88

Documentation of cross specialty links

Orthopedic Surgery

Rejected links

Same	Origin	Status of Link
or T ; mx I	(10/87)	Rejected by panel and staff 12/87
or I ; rh O	(12/86)	Deleted, surveyed time differs by more than 25% 9/87
or J ; gs V	(12/86)	Accepted by panel 12/86, not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel and staff 2/88
or M ; an L	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
or M ; pe M	(12/86)	Deleted, surveyed time differs by more than 25%, 9/87
Equivalent		
or * ; ot R	(10/87)	Rejected by panel and staff 12/87
or B ; ts C	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, not reviewed by panel 2/88, rejected by staff 4/88
or I ; an E	(10/87)	Not reviewed by panel 12/87, rejected by staff 12/87, rejected by panel 2/88

Appendix L continued

Documentation of cross specialty links

Otolaryngology

Accepted links

Same	Origin	Status of Link
ot * ; gs F	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ot B ; im B	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ot T ; mx O	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ot E ; ts G	(10/87)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
ot A ; mx A	(10/87)	Accepted by panel and staff 12/87
ot D ; ob *	(10/87)	Accepted by panel and staff 12/87
ot I ; ob A	(10/87)	Accepted by panel and staff 12/87

Rejected links

Equivalent		
ot * ; ts J	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
ot M ; gs E	(12/86)	Accepted by panel 12/86, deviations from the compromise locations were conspicuous outliers, 4/88
ot M ; ts R	(12/86)	Rejected by panel 12/86
ot N ; fp Q	(10/87)	Accepted by panel and staff 12/87, rejected by panel and staff 1/88
ot N ; im L	(10/87)	Accepted by panel and staff 12/87, rejected by panel and staff 1/88
ot O ; ur T	(10/87)	Rejected by panel and staff 12/87
ot R ; gs M	(10/87)	Rejected by panel and staff 12/87

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Documentation of cross specialty links

Otolaryngology

Rejected links

Equivalent	Origin	Status of Link
ot R ; or *	(10/87)	Rejected by panel and staff 12/87
ot S ; fp K	(10/87)	Rejected by panel and staff 12/87
ot S ; ob C	(10/87)	Rejected by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

Pathology

Accepted links

Same	Origin	Status of Link
pa F ; ai Q	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel and staff 2/88
Equivalent		
pa E ; mx L	(2/88)	Accepted by panel and staff 2/88
pa H ; op P	(2/88)	Accepted by panel and staff 2/88
pa M ; pe H	(10/87)	Rejected by panel 12/87, accepted by panel 12/87
pa I ; ra D	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
pa N ; an V	(12/86)	Rejected by panel 12/86, rejected by panel and staff 12/87
Equivalent		
pa * ; pe B	(12/87)	Accepted by panel and staff 12/87, rejected by staff 1/8
pa * ; gs U	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
pa * ; im U	(12/86)	Accepted by panel 12/86, deviations from the compromise locations were conspicuous outliers, 4/88
pa A ; ai L	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel 2/88, rejected by staff 4/88
pa B ; fp C	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
pa B ; im B	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87

Appendix L continued

Documentation of cross specialty links

Pathology

Rejected links

Equivalent	Origin	Status of Link
pa B ; im V	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
pa B ; op S	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
pa E ; ob P	(12/87)	Accepted by panel and staff 12/87, deleted because pa E is involved in another link
pa F ; ob K	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
pa H ; ra J	(10/87)	Not reviewed by panel 12/87, rejected by staff 12/87
pa I ; ra G	(2/88)	Accepted by panel and staff 2/88, deleted because pa I is involved in another link, 4/88
pa J ; im F	(10/87)	Rejected by panel and staff 12/87
pa J ; ur G	(10/87)	Rejected by panel and staff 12/87
pa Q ; gs Q	(10/87)	Rejected by panel 12/87, accepted by staff 12/87, rejected by staff 4/88
pa R ; mx R	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, rejected by panel 2/88

Documentation of cross specialty links

Pediatrics

Accepted links

Same	Origin	Status of Link
pe C ; fp W	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
pe P ; fp C	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
pe R ; fp M	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
pe R ; im H	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
pe * ; dm *	(10/87)	Accepted by panel and staff 12/87
pe F ; op C	(10/87)	Accepted by panel and staff 12/87
pe I ; an L	(10/87)	Accepted by panel and staff 12/87
pe O ; or H	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
pe * ; ai B	(12/86)	Deleted, surveyed time differs by more than 25%, 9/87
pe * ; fp L	(12/86)	Accepted by panel 12/86, deviations from the compromise locations were conspicuous outliers, 4/88
pe M ; or M	(12/86)	Deleted, surveyed time differs by more than 25%, 9/87
pe Q ; fp I	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
pe Q ; im E	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87
pe R ; op S	(12/86)	Accepted by panel 12/86, rejected by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

Pediatrics

Rejected links

Same	Origin	Status of Link
pe S ; ai F	(12/86)	Rejected by panel 12/86
Equivalent		
pe B ; pa *	(10/87)	Accepted by panel and staff 12/87, rejected by staff 1/88
pe H ; pa M	(10/87)	Rejected by panel 12/87, accepted by staff 12/87, rejected by staff 4/88

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Documentation of cross specialty links

Psychiatry

Accepted links

Equivalent	Origin	Status of Link
py * ; im F	(4/88)	Accepted by panel and staff 4/88
py D ; rh D	(4/88)	Accepted by panel and staff 4/88
py F ; im N	(4/88)	Accepted by panel and staff 4/88
py L ; im G	(4/88)	Accepted by panel and staff 4/88
py N ; rh C	(4/88)	Accepted by panel and staff 4/88
py O ; rh M	(4/88)	Accepted by panel and staff 4/88
py S ; rh H	(4/88)	Accepted by panel and staff 4/88

Rejected links

Equivalent		
py O ; rh J	(4/88)	Rejected by panel and staff 4/88

Appendix L continued

Documentation of cross specialty links

Radiology

Accepted links

Same	Origin	Status of Link
ra P ; rh L	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ra S ; or S	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel and staff 2/88
ra T ; rh Q	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
ra D ; pa I	(02/88)	Accepted by panel and staff 2/88
ra N ; op Q	(10/87)	Accepted by panel and staff 12/87
ra R ; op H	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
ra G ; pa I	(2/88)	Accepted by panel and staff 2/88, deleted because pa I is involved in another link 4/88
ra G ; ob R	(12/86)	Rejected by panel 12/86
Equivalent		
ra G ; mx S	(10/87)	Rejected by panel and staff 12/87
ra J ; op P	(2/88)	Accepted by panel and staff 2/88, deleted because op P is involved in another link, 4/88
ra J ; pa H	(10/87)	Not reviewed by panel 12/87, rejected by staff 12/87

Documentation of cross specialty links

Rheumatology

Accepted links

Same	Origin	Status of Link
rh E ; im C	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
rh E ; or R	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
rh L ; ra P	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
rh Q ; ra T	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
rh * ; ai B	(2/88)	Accepted by panel and staff 2/88
rh B ; or Q	(2/88)	Accepted by panel and staff 2/88
rh C ; py N	(4/88)	Accepted by panel and staff 4/88
rh D ; py D	(4/88)	Accepted by panel and staff 4/88
rh H ; py S	(4/88)	Accepted by panel and staff 4/88
rh M ; py O	(4/88)	Accepted by panel and staff 4/88
rh N ; or K	(12/86)	Not reviewed by panel 12/87, accepted by staff 12/87, accepted by panel 2/88
rh O ; ai F	(2/88)	Accepted by panel and staff 2/88

Rejected links

Same		
rh O ; gs P	(12/86)	Accepted by panel 12/86, deleted, surveyed time differs by more than 25%, 9/87
rh O ; or I	(12/86)	Deleted, surveyed time differs by more than 25%, 9/87
Equivalent		
rh J ; py O	(4/88)	Rejected by panel and staff 4/88

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Documentation of cross specialty links

Thoracic/Cardiovascular Surgery

Accepted links

Same	Origin	Status of Link
ts B ; gs B	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ts R ; gs E	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ts S ; gs A	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
ts G ; ot E	(10/87)	Accepeted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
ts H ; gs G	(10/87)	Accepted by panel and staff 12/87
ts L ; ob S	(10/87)	Accepted by panel and staff 12/87
ts N ; im K	(10/87)	Rejected by panel 12/87, accepted by staff 12/87

Rejected links

Same		
ts J ; ot *	(12/86)	Accepted by panel 12/86, Deleted, surveyed time differs by more than 25%, 9/87
ts O ; or E	(10/87)	Not reviewed by panel 12/87, rejected by panel 12/87, accepted by staff 12/87, not reviewed by panel 2/88, rejected by staff 4/88
ts R ; ot M	(12/86)	Rejected by panel 12/86
Equivalent		
ts C ; or B	(10/87)	Not reviewed by panel 12/87, accepted by staff 12/87, not reviewed by panel 2/88, rejected by staff 4/88
ts F ; ur S	(10/87)	Rejected by panel and staff 12/87

Appendix L continued

Documentation of cross specialty links

Urology

Accepted links

Same	Origin	Status of Link
ur O ; im S	(12/86)	Accepted by panel 12/86, accepted by panel and staff 12/87
Equivalent		
ur B ; gs U	(10/87)	Accepted by panel 1and staff 12/87
ur C ; op E	(10/87)	Accepted by panel and staff 12/87
ur I ; dm M	(12/87)	Accepted by panel and staff 12/87
ur J ; fp P	(10/87)	Accepted by panel and staff 12/87
ur J ; gs S	(10/87)	Accepted by panel and staff 12/87
ur J ; im J	(10/87)	Accepted by panel and panel 12/87
ur J ; ob L	(10/87)	Accepted by panel and staff 12/87
ur L ; op A	(10/87)	Rejected by panel 12/87, accepted by staff 12/87
ur Q ; ob O	(10/87)	Accepted by panel and staff 12/87
ur R ; op R	(10/87)	Accepted by panel and staff 12/87

Rejected links

Same		
ur G ; im F	(12/86)	Rejected by panel and staff 12/87
Equivalent		
ur G ; pa J	(10/87)	Rejected by panel and staff 12/87
ur S ; ts F	(10/87)	Rejected by panel and staff 12/87
ur T ; ot O	(10/87)	Rejected by panel and staff 12/87

Appendix M

Hypothetical Example of Cross-Specialty Alignment Process

Appendix M

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Hypothetical Example of Cross-Specialty Alignment Process . . 1

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Appendix M

Hypothetical Example of Cross-Specialty Alignment Process

This appendix provides a hypothetical example of the quantitative alignment process described in detail in Chapter 6. This example assumes three specialties (A, B and C) and four link services (1, 2, 3, 4). Physicians in specialty A rated the work of five services, two of which were involved in links. Specialty B rated the work of six services, three of which were involved in links. Finally, specialty C rated six services and three of these were involved in links. Services 1, 2, 3, and 4 served as link services between the specialties.

Note that in this appendix we are not numbering the services as was done in Chapter 6. Here, all services in a set of linked services are given the same number (1, 2, 3, of 4). In Chapter 6, services performed by different specialties were never given the same number, even when those services were linked.

Table M.1 presents the inputs to the quantitative alignment. For services involved in links (the upper portion of the table), the first two columns describe the specialties and services. These columns also denote the links. For example, service 1 was a link between specialties A and B. The three rightmost columns of the table show the mean ratings of the locations of logarithm work on the individual specialty scales, the d_{ij} values calculated from these mean ratings, and the σ_{ij} values. These estimates were obtained from the Estimation-

Maximization procedure described in Chapter 5, and are discussed in more detail in section 6.5.1. Note that d_{ij} is logarithm work minus 2.0. As described in Chapter 6, d_{ij} is the ratio of the work for a service relative to that of the standard service for a specialty. The work of each standard service on the specialty scale was defined to be 100, as described in Chapter 5. (The common logarithm of 100 is 2.0.) Also note that service S for specialty A in the table is not part of a link, but is the "special service" for the alignment process. This service was arbitrarily chosen and provides a reference point for the alignment process. Another service could have been chosen as the "special service" for this process without influencing the relative locations of the services from these specialties on the common scale of work. The lower portion of Table M.1 shows the services and locations for the three specialties not involved in links.

The information in Table M.1 serves as the input to the alignment process, which uses multiple linear regression. Table M.2 presents the coding of the link (a_i) and specialty (b_j) variables for the regression. (These variables are discussed in detail in section 6.5.1.) Note that only the services involved in links and the "special service" are included in the data array. We performed weighted least squares using this data array, as described in Chapter 6. The weights used in the regression were the σ_{ij}s shown in Table M.1. Each line of the

data array in Table M.2 was divided by the respective σ_{ij} for the service and specialty before the regression was performed.

The results of the example are shown in Table M.3. The parameter estimates are included in the upper portion of the table, while the locations of logarithm work for all services in the three specialties on the common scale are shown in the lower portion of the table. The locations on the common scale are calculated from the locations of the services on the specialty scales and the estimated parameters from the weighted least squares regression ($d_{ij} + b_j + 2.0$).

Table M.1

Hypothetical example of cross-specialty alignment process: inputs to the quantitative alignment

Services Involved in Links

Specialty	Service	Logarithm Work	d_{ij}	σ_{ij}
A	1	2.155	0.155	0.0273
A	2	2.384	0.384	0.0174
A	S	2.187	0.187	0.0242
B	1	1.762	-0.238	0.0319
B	3	1.491	-0.509	0.0415
B	4	1.543	-0.457	0.0376
C	2	2.721	0.721	0.0196
C	3	2.311	0.311	0.0152
C	4	2.337	0.337	0.0187

Services Not Involved in Links and Not Special Service

Specialty	Service	Logarithm Work
A	5	2.755
A	6	1.884
B	7	2.762
B	8	1.391
B	9	2.543
C	10	3.021
C	11	2.711

Table M.2
Hypothetical example of cross-specialty alignment process:
coding of link (a_i) and specialty (b_j) variables
for the quantitative alignment process

Specialty	Service	d_{ij}	a_1	a_2	a_3	a_4	b_A	b_B	b_C
A	1	0.155	1	0	0	0	-1	0	0
A	2	0.384	0	1	0	0	-1	0	0
A	S	0.187	-1	-1	-1	-1	-2	-1	-1
B	1	-0.238	1	0	0	0	0	-1	0
B	3	-0.509	0	0	1	0	0	-1	0
B	4	-0.457	0	0	0	1	0	-1	0
C	2	0.721	0	1	0	0	0	0	-1
C	3	0.311	0	0	1	0	0	0	-1
C	4	0.337	0	0	0	1	0	0	-1

Table M.3

Results of hypothetical example of cross-specialty alignment process

Parameter Estimates

Parameter	Parameter Estimate
a_1	.078
a_2	.283
a_3	-.140
a_4	-.117
b_A	-.094
b_B	.339
b_C	-.447

Locations on Common Scale of Logarithm Work

Specialty	Service	Location
A	1	2.061
A	2	2.290
A	S	2.093
A	5	2.661
A	6	1.790
B	1	2.101
B	3	1.830
B	4	1.882
B	7	3.101
B	8	1.730
B	9	2.882
C	2	2.274
C	3	1.864
C	4	1.890
C	10	2.574
C	11	2.264

Appendix N

Second National Survey Questionnaires

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Appendix N

SECOND
NATIONAL PHYSICIANS SURVEY

(ALLERGY AND IMMUNOLOGY)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

A & I

Appendix N

ALLERGY/IMMUNOLOGY PROCEDURES AND SERVICES

We would like an estimate of time you spend with the average patient before, during and after you provide an evaluation or management service listed in Grid 1.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians.

(GRID 1)

Std. Follow-up office visit for pharmacological management of 30 year old female with hay fever.

b. Office visit, established patient, 6 year old child with sore throat and headache.

e. Direct hospital admission for care of young adult patient, who has failed previous therapy and now presents in acute asthmatic attack.

f. Initial office visit for evaluation of child with chronic wheezing.

l. Evaluation of 6 year old male with multiple infections, new patient.

n. Initial office evaluation of adult with chronic recurrent hives, new patient.

o. Office visit with 45 year old male, established patient, with chronic asthma, on chronic steroid and bronchodilator therapy.

p. Medical conference by physician regarding medical management with patient and/or family; counseling for avoidance, elimination, symptomatic treatment, and immunotherapy.

r. Direct hospital admission of 62 year old smoker established patient with bronchitis, in acute respiratory distress.

ALLERGY/IMMUNOLOGY PROCEDURES AND SERVICES (GRID 1, Cont.)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communications with the patient and other physicians, including written and telephone reports after the service.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
Std_____ MINS	_____ MINS	_____ MINS
b._____ MINS	_____ MINS	_____ MINS
e._____ MINS	_____ MINS	_____ MINS
f._____ MINS	_____ MINS	_____ MINS
l._____ MINS	_____ MINS	_____ MINS
n._____ MINS	_____ MINS	_____ MINS
o._____ MINS	_____ MINS	_____ MINS
p._____ MINS	_____ MINS	_____ MINS
r._____ MINS	_____ MINS	_____ MINS

GO DIRECTLY TO GRID 4

Appendix N

ALLERGY/IMMUNOLOGY PROCEDURES AND SERVICES (GRID 4)

Now we want you to estimate the time you normally spend with the average patient before, during and after you perform an office invasive procedure listed in Grid 4.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians as well as time you spend setting up for the procedure, preparing medications or supplies, scrubbing, positioning the patient and checking equipment.

COLUMN 2: INCLUDE only the time it takes for you to perform the procedure itself.

(GRID 4)

a. Intracutaneous, intradermal, tests with stinging insects, immediate reaction (15-20 min) 11-15 tests.

c. Percutaneous tests with allergenic extracts, 1st 30.

d. Intradermal tests with allergenic extracts, 1st 10.

g. Single injection for immunotherapy, antigen supplied by another source.

i. Fibroscopic exam of nasal, choanal, pharynx for nasal polyps.

j. Inhalation bronchial challenge testing with histamine, methacholine, or similar compound; not including necessary pulmonary function tests.

m. Application and reading of intradermal tests with antigens for immune deficiency evaluation.

Appendix N

ALLERGY/IMMUNOLOGY PROCEDURES AND SERVICES (Cont'd GRID 4)

COLUMN 3: INCLUDE time after performance of the procedure talking with the patient, arranging for further lab studies and further communication, including written and telephone reports.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT & SETTING UP PROCEDURE	AVERAGE MINS PERFORMING PRO-PROCEDURE	AVERAGE MINS ARRANGING TESTS AND REPORTING
a._____MINS	_____MINS	_____MINS
c._____MINS	_____MINS	_____MINS
d._____MINS	_____MINS	_____MINS
g._____MINS	_____MINS	_____MINS
i._____MINS	_____MINS	_____MINS
j._____MINS	_____MINS	_____MINS
m._____MINS	_____MINS	_____MINS

Appendix N

SECOND

NATIONAL PHYSICIANS SURVEY

(GENERAL SURGERY)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

GS

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES

We would like an estimate of time you spend with the average patient before, during and after you provide an evaluation or management service listed in Grid 1.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians.

(GRID 1)

o. Preoperative evaluation of new patient with primary hyperparathyroidism.

p. Comprehensive office visit for initial evaluation of a 48 year old man with recurrent low back pain radiating to the leg.

q. Follow-up office visit, 60 year old established patient 8 weeks post partial colectomy with end-to-end anastomosis.

s. Office evaluation of new onset right lower quadrant pain in a 32 year old woman, established patient.

t. Hospital admission, 45 year old female with acute cholecystitis.

u. Hospital visit, 3 days post uncomplicated cholecystectomy with common bile duct exploration.

w. Emergency hospital consultation, 72 year old, new patient, with possible bowel obstruction.

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES (GRID 1, Cont.)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communications with the patient and other physicians, including written and telephone reports after the service.

	COLUMN 1	COLUMN 2	COLUMN 3
	AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
o.	_____ MINS	_____ MINS	_____ MINS
p.	_____ MINS	_____ MINS	_____ MINS
q.	_____ MINS	_____ MINS	_____ MINS
s.	_____ MINS	_____ MINS	_____ MINS
t.	_____ MINS	_____ MINS	_____ MINS
u.	_____ MINS	_____ MINS	_____ MINS
w.	_____ MINS	_____ MINS	_____ MINS

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES

Now we would like you to estimate the time you spend with the average patient before, during and after you provide a service or procedure in the emergency room listed in GRID 2.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians.

COLUMN 2: INCLUDE only the time it takes for you to provide the service or procedure itself.

(GRID 2)

e. Tracheostomy, emergency procedure, transtracheal, in adult, for partial airway obstruction, post trauma.

v. Initial evaluation and formulation of plan for management of multiple trauma patient with complex pelvic fracture in 35 year old male.

y. Triage, resuscitation and hospital admission from ER, prior to consultation/ intervention, of 52 year old, new patient, alcoholic male with ascites, jaundice, encephalopathy, and massive hematemesis.

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES (GRID 2, Cont.)

COLUMN 3: INCLUDE arranging for further lab studies, consultations, X-rays or other tests, reviewing results of studies, further communications with the patient and other physicians, written and telephone reports, arranging for the patient to be transferred to another service and admitted to the hospital after the service or procedure.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
e._____MINS	_____MINS	_____MINS
v._____MINS	_____MINS	_____MINS
y._____MINS	_____MINS	_____MINS

GO DIRECTLY TO GRID 4

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES (GRID 4)

Now we want you to estimate the time you normally spend with the average patient before, during and after you perform an office invasive procedure listed in Grid 4.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians as well as time you spend setting up for the procedure, preparing medications or supplies, scrubbing, positioning the patient and checking equipment.

COLUMN 2: INCLUDE only the time it takes for you to perform the procedure itself.

(GRID 4)

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i. Rigid sigmoidoscopy, without biopsy, in office.

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES (GRID 4, Cont.)

COLUMN 3: INCLUDE time after performance of the procedure talking with the patient, arranging for further lab studies and further communication, including written and telephone reports.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT & SETTING UP PROCEDURE	AVERAGE MINS PERFORMING PRO-PROCEDURE	AVERAGE MINS ARRANGING TESTS AND REPORTING
i. _____MINS	_____MINS	_____MINS

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES

We would like an estimate of time you spend with the average patient before, during and after you perform an invasive procedure in an ambulatory setting listed in Grid 5.

COLUMN 1: INCLUDE pre-procedure work-up and time with the patient before performing the procedure.

(GRID 5)

Std. An uncomplicated indirect inguinal hernia repair, 45 year old male.

j. Colonoscopy and polypectomy in 53 year old male with 2 colon polyps, outpatient procedure.

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES (GRID 5, Cont.)

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient as well as other post-operative follow-up the day of the surgery.

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
AVERAGE MINUTES PRE-PROCEDURE WORK-UP	AVERAGE MINUTES DRESSING ETC. BEFORE PROCEDURE	AVERAGE MINUTES PERFORM-ING PROCEDURE	AVERAGE MINUTES IMMED. POST-OP FOLLOW-UP CARE
St _____ MINS	_____ MINS	_____ MINS	_____ MINS
j. _____ MINS	_____ MINS	_____ MINS	_____ MINS

Appendix N

GENERAL SURGERY PROCEDURES AND SERVICES

We would now like an estimate of time you normally spend with the average patient before, during and after you perform an invasive procedure in a hospital setting listed in Grid 6.

COLUMN 1: INCLUDE hospital admission work-up and hospital visits before the operation.

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only the time it takes for you to perform the procedure itself.

(GRID 6)

Std. An uncomplicated indirect inguinal hernia repair, 45 year old male.

b. Chest tube insertion for spontaneous pneumothorax, in 20 year old.

d. Modified radical mastectomy.

g. Low anterior resection for rectal carcinoma.

h. Appendectomy for acute abdomen with unperforated appendicitis.

k. Cholecystectomy for cholelithiasis.

l. Abdominal hysterectomy for cancer in situ of cervix in 50 year old woman.

GENERAL SURGERY PROCEDURES AND SERVICES (GRID 6, Cont.)

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient

COLUMN 5: INCLUDE post-operative follow-up the day of the surgery.

COLUMN 6: INCLUDE number of times you see the patient after the day of surgery in hospital

COLUMN 7: INCLUDE, on each of those times, the minutes you spend seeing the patient.

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7
	AVE MINS FOR WORK-UP BEFORE OPERAT.	AVE MINS DRESSING ETC. BEFORE OPERAT.	AVERAGE MINS TO PERFORM. PROCED-URE	AVERAGE MINUTES POST-OPERATIVE CARE	AVERAGE MINUTES POST-OPERATIVE FOLLOW-UP	AVERAGE TIMES YOU SEE PATIENT IN HOSPITAL AFTER DAY OF SURGERY	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN COL. 6
St	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
b.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
d.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
g.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
h.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
k.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
l.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS

Appendix N

SECOND

NATIONAL PHYSICIANS SURVEY

(INTERNAL MEDICINE)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

IM

Appendix N

INTERNAL MEDICINE PROCEDURES AND SERVICES (GRID 1)

We would like an estimate of time you spend with the average patient before, during and after you provide an evaluation or management service listed in Grid 1.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians.

(GRID 1)

Std: Follow-up visit of a 55 year old male for management of hypertension, mild..... fatigue, on beta blocker/thiazide regimen.

b. Office visit, sore throat, fever, and fatigue in 19 year old college student,..... established patient.

f. Initial office evaluation for diagnosis and management of painless gross hematuria in new patient, without cystoscopy.

g. Emergency hospital consultation, 72 year old, new patient, with possible bowel..... obstruction.

h. Office evaluation for possible purulent bacterial conjunctivitis with 1 to 2 day.... history of redness and discharge in 16 year old female, established patient.

i. Office visit with 45 year old male, established patient, with chronic asthma, on chronic steroid and bronchodilator therapy.

j. Office evaluation of new onset right lower quadrant pain in a 32 year old woman,... established patient.

l. Office evaluation of 28 year old patient with regional enteritis, diarrhea, and low grade fever, established patient.

m. Direct hospital admission of a 62 year old smoker, established patient, with..... bronchitis in acute respiratory distress.

n. Follow-up hospital visit, day 2, patient with non-dominant CVA with mild..... hemiparesis.

o. Hospital visit, day 3 post admission, 65 year old male with uncomplicated MI,..... established patient.

r. Hospital consultation for diagnosis/management of fever following abdominal surgery.

s. Initial evaluation and management of recurrent urinary tract infection in female....

INTERNAL MEDICINE PROCEDURES AND SERVICES (Cont'd GRID 1)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communications with the patient and other physicians, including written and telephone reports after the service.

	COLUMN 1	COLUMN 2	COLUMN 3
	AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
st	_____ MINS	_____ MINS	_____ MINS
b	_____ MINS	_____ MINS	_____ MINS
f	_____ MINS	_____ MINS	_____ MINS
g	_____ MINS	_____ MINS	_____ MINS
h	_____ MINS	_____ MINS	_____ MINS
i	_____ MINS	_____ MINS	_____ MINS
j	_____ MINS	_____ MINS	_____ MINS
l	_____ MINS	_____ MINS	_____ MINS
m	_____ MINS	_____ MINS	_____ MINS
n	_____ MINS	_____ MINS	_____ MINS
o	_____ MINS	_____ MINS	_____ MINS
r	_____ MINS	_____ MINS	_____ MINS
s	_____ MINS	_____ MINS	_____ MINS

Appendix N

INTERNAL MEDICINE PROCEDURES AND SERVICES (GRID 2)

Now we would like you to estimate the time you spend with the average patient before, during and after you provide a service or procedure in the emergency room.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians.

COLUMN 2: INCLUDE only the time it takes for you to provide the service or procedure itself.

(GRID 2)

a. Management of patient in acute pulmonary edema in emergency room, who subsequently is admitted to hospital, established patient.

INTERNAL MEDICINE PROCEDURES AND SERVICES (GRID 2 Cont'd)

COLUMN 3: INCLUDE arranging for further lab studies, consultations, X-rays or other tests, reviewing results of studies, further communications with the patient and other physicians, written and telephone reports, arranging for the patient to be transferred to another service and admitted to the hospital after the service or procedure.

	COLUMN 1	COLUMN 2	COLUMN 3
	AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
a	_____MINS	_____MINS	_____MINS

Appendix N

INTERNAL MEDICINE PROCEDURES AND SERVICES (GRID 3)

We would like you to estimate the time you spend with the average patient before, during and after you provide an evaluation service in a nursing home listed in Grid 3.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians or nursing home personnel.

(GRID 3)

p. Scheduled monthly nursing home visit to established patient with Organic Brain Syndrome.

q. Nursing home visit, unscheduled, for evaluation of patient with fever and obtundation that subsequently does not involve hospital admission.

INTERNAL MEDICINE PROCEDURES AND SERVICES (GRID 3 Cont'd)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging for further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communication with the patient, other physicians or nursing home personnel including written and telephone reports and writing orders after the service.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINUTES PREPARING TO SEE PATIENT	AVERAGE MINUTES PERFORM-ING SERVICE	AVERAGE MINUTES ARRANGING TESTS AND REPORTING AFTER SERVICE
p _____ MINS	_____ MINS	_____ MINS
q _____ MINS	_____ MINS	_____ MINS

Appendix N

SECOND

NATIONAL PHYSICIANS SURVEY

(ORAL AND MAXILLOFACIAL SURGERY)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

ORAL

Appendix N

ORAL AND MAXILLOFACIAL PROCEDURES AND SERVICES

We would like an estimate of time you spend with the average patient before, during and after you provide an evaluation or management service listed in Grid 1.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians.

(GRID 1)

b. Office visit to advise for or against removal of wisdom teeth, 18 year old male referred by orthodontist.....

k. Comprehensive evaluation of 28 year old female with 2 year history of facial/TMJ pain and joint clicking.....

l. Office visit for 45 year old female smoker with small oral ulcer on the lateral border of the tongue.....

Appendix N

ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES (GRID 1, Cont)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communications with the patient and other physicians, including written and telephone reports after the service.

	COLUMN 1	COLUMN 2	COLUMN 3
	AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
b.	_____ MINS	_____ MINS	_____ MINS
k.	_____ MINS	_____ MINS	_____ MINS
l.	_____ MINS	_____ MINS	_____ MINS

GO DIRECTLY TO GRID 4

Appendix N

ORAL AND MAXILLOFACIAL PROCEDURES AND SERVICES

Now we want you to estimate the time you normally spend with the average patient before, during and after you perform an office invasive procedure listed in Grid 4.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians as well as time you spend setting up for the procedure, preparing medications or supplies, scrubbing, positioning the patient and checking equipment.

COLUMN 2: INCLUDE only the time it takes for you to perform the procedure itself.

(GRID 4)

Std. exposure of single impacted cuspid in office for 14 year old child to facilitate future orthodontic treatment, no traction device required. .....

c. Removal of 4 impacted, full bony, wisdom teeth, single office procedure, 21 year old male college student.....

f. General anesthesia for extraction of abscessed tooth in a healthy 40 year old male..

h. Extraction of abscessed tooth in a healthy 40 year old male.....

j. Excision of .5 centimeter benign lesion of the lip in a 60 year old female.....

m. General anesthesia in office for extraction of 4 wisdom teeth in healthy 18 year old male, surgery performed by other than yourself.....

Appendix N

ORAL AND MAXILLOFACIAL PROCEDURES AND SERVICES (GRID 4, Cont.)

COLUMN 3: INCLUDE time after performance of the procedure talking with the patient, arranging for further lab studies and further communication, including written and telephone reports.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT & SETTING UP PROCEDURE	AVERAGE MINS PERFORMING PRO-PROCEDURE	AVERAGE MINS ARRANGING TESTS AND REPORTING
St_____MINS	_____MINS	_____MINS
c._____MINS	_____MINS	_____MINS
f._____MINS	_____MINS	_____MINS
h._____MINS	_____MINS	_____MINS
j._____MINS	_____MINS	_____MINS
m._____MINS	_____MINS	_____MINS

ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES

We would like an estimate of time you spend with the average patient before, during and after you perform an invasive procedure in an ambulatory setting listed in Grid 5.

COLUMN 1: INCLUDE pre-procedure work-up and time with the patient before performing the procedure.

(GRID 5)

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u. Unilateral arthroscopy of TMJ.

v. Placement of 4 maxillary endosseous implants.

w. Unilateral meniscoplasty, temporomandibular joint.

Appendix N

ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES (GRID 5, Cont.)

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient as well as other post-operative follow-up the day of the surgery.

	COLUMN 1 AVERAGE MINUTES PRE-PROCEDURE WORK-UP	COLUMN 2 AVERAGE MINUTES DRESSING ETC. BEFORE PROCEDURE	COLUMN 3 AVERAGE MINUTES PERFORM-ING PROCEDURE	COLUMN 4 AVERAGE MINUTES IMMED. POST-OP FOLLOW-UP CARE
u.	_____ MINS	_____ MINS	_____ MINS	_____ MINS
v.	_____ MINS	_____ MINS	_____ MINS	_____ MINS
w.	_____ MINS	_____ MINS	_____ MINS	_____ MINS

Appendix N
ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES

We would now like an estimate of time you normally spend with the average patient before, during and after you perform an invasive procedure in a hospital setting listed in Grid 6.

COLUMN 1: INCLUDE hospital admission work-up and hospital visits before the operation.

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only the time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient

(GRID 6)

d. Removal of 4 impacted, full bony, wisdom teeth, single hospital procedure, 21 year old male college student.....

g. Extraction of 10 erupted mandibular teeth, 60 year old male on Persantine and aspirin, 6 years post MI.....

i. Bilateral sagittal osteotomy, mandibular ramus in 20 year old female for developmental deformity.....

o. Unilateral Caldwell-Luc procedure for maxillary sinus disease, with antral polyp removal.

p. Closed reduction of mandibular fracture by manipulation and intermaxillary fixation, 24 year old male.....

Appendix N

ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES (GRID 6, Cont)

COLUMN 5: INCLUDE post-operative follow-up the day of the surgery.

COLUMN 6: INCLUDE number of times you see the patient <u>after</u> the day of surgery in hospital

COLUMN 7: INCLUDE, on each of those times, the minutes you spend seeing the patient

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7
AVE MINS FOR WORK-UP BEFORE OPERAT.	AVE MINS DRESSING ETC. BEFORE OPERAT.	AVERAGE MINS TO PERFORM. PROCED-URE	AVERAGE MINUTES POST-OPERATIVE CARE	AVERAGE MINUTES POST-OPERATIVE FOLLOW-UP	AVERAGE TIMES YOU SEE PATIENT IN HOSPITAL AFTER DAY OF SURGERY	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN COL 6
d.____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
g.____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
i.____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
o.____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
p.____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS

Appendix N
ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES

We would now like an estimate of time you normally spend with the average patient before, during and after you perform an invasive procedure in a hospital setting listed in Grid 7.

COLUMN 1: INCLUDE hospital admission work-up and hospital visits before the operation.

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only the time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient

(GRID 7)	COLUMN 1 AVE MINS FOR WORK-UP BEFORE OPERAT.	COLUMN 2 AVE MINS DRESSING ETC. BEFORE OPERAT.
a. LeFort one maxillary and sagittal split mandibular osteotomeis for correction of developmental deformity in 28 yr. old female...a.	____MINS	____MINS
q. Open surgical treatment of complex mandibular fracture including interdental fixation, and/or wiring of dentures or splints; 32 year old female.....q.	____MINS	____MINS
t. Open treatment of multiple fractures of zygomatic arch and malar tripod, with internal skeletal and multiple surgical approaches..t.	____MINS	____MINS

Appendix N

ORAL AND MAXILLOFACIAL SURGERY PROCEDURES AND SERVICES (GRID 7, CONT.)

COLUMN 5: INCLUDE post-operative follow-up the day of the surgery.

COLUMN 6: INCLUDE number of times you see the patient in the ICU after the day of surgery.

COLUMN 7: INCLUDE on each ICU visit, the minutes you spend seeing the patient.

COLUMN 8: INCLUDE number of times you see the patient in the hospital following ICU care.

COLUMN 9: INCLUDE, on each of those times, the minutes you spend seeing the patient.

COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9
AVERAGE MINS TO PERFORM. PROCED-URE	AVERAGE MINUTES POST-OPERATIVE CARE	AVERAGE MINUTES POST-OPERATIVE FOLLOW-UP	AVERAGE TIMES YOU SEE PATIENT AFTER SURGERY IN ICU	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN ICU	AVERAGE TIMES YOU SEE PATIENT IN HOSPITAL AFTER ICU CARE	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN COL 8
____MINS	____MINS	____MINS	____ TIMES	___ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____ TIMES	___ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____ TIMES	___ MINS	____ TIMES	___ MINS

Appendix N

SECOND

NATIONAL PHYSICIANS SURVEY

(ORTHOPEDIC SURGERY)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

ORTH

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 1)

We would like an estimate of time you spend with the average patient before, during and after you provide an evaluation or management service listed in Grid 1.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians.

(GRID 1)

b. Day 3 or 4 post-op follow-up of 80 year old female with repair of ..... intertrochanteric fracture.

h. Comprehensive initial office visit for evaluation of 13 year old female with..... progressive scoliosis.

i. Comprehensive office visit for initial evaluation, one hour, of a 48 year old man with recurrent low back pain radiating to the leg.

k. Intermediate office visit for established patient with known osteoarthritis and painful swollen knees.

n. First visit for evaluation and counseling of 28 year old male runner with knee and calf pain.

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 1 Cont'd)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communications with the patient and other physicians, including written and telephone reports after the service.

	COLUMN 1	COLUMN 2	COLUMN 3
	AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
b	_____ MINS	_____ MINS	_____ MINS
h	_____ MINS	_____ MINS	_____ MINS
i	_____ MINS	_____ MINS	_____ MINS
k	_____ MINS	_____ MINS	_____ MINS
n	_____ MINS	_____ MINS	_____ MINS

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 2)

Now we would like you to estimate the time you spend with the average patient before, during and after you provide a service or procedure in the emergency room.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians.

COLUMN 2: INCLUDE only the time it takes for you to provide the service or procedure itself.

(GRID 2)

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j. Initial evaluation and formulation of plan for management of multiple trauma..... patient with complex pelvic fracture in 35 year old male.

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 2 Cont'd)

COLUMN 3: INCLUDE arranging for further lab studies, consultations, X-rays or other tests, reviewing results of studies, further communications with the patient and other physicians, written and telephone reports, arranging for the patient to be transferred to another service and admitted to the hospital after the service or procedure.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
j _____MINS	_____MINS	_____MINS

NO GRID

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 4)

Now we want you to estimate the time you normally spend with the average patient before, during and after you perform an office invasive procedure listed in Grid 4.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians as well as time you spend setting up for the procedure, preparing medications or supplies, scrubbing, positioning the patient and checking equipment.

COLUMN 2: INCLUDE only the time it takes for you to perform the procedure itself.

(GRID 4)

m. Closed reduction of a subluxation of the head of the radius at the elbow in ..... a 4 year old male, office setting.

r. Aspiration of synovial fluid from knee, office procedure.....

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 4 Cont'd)

COLUMN 3: INCLUDE time after performance of the procedure talking with the patient, arranging for further lab studies and further communication, including written and telephone reports.

	COLUMN 1	COLUMN 2	COLUMN 3
	AVERAGE MINS PREPARING TO SEE PATIENT & SETTING UP PROCEDURE	AVERAGE MINS PERFORMING PRO-PROCEDURE	AVERAGE MINS ARRANGING TESTS AND REPORTING
m	_____MINS	_____MINS	_____MINS
r	_____MINS	_____MINS	_____MINS

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 5)

We would like an estimate of time you spend with the average patient before, during and after you perform an invasive procedure in an ambulatory setting listed in Grid 5.

COLUMN 1: INCLUDE pre-procedure work-up and time with the patient before performing the procedure.

(GRID 5)

Std: a decompression of carpal tunnel in 48 year old female, unilateral, ambulatory surgery unit.

c. Bunionectomy, Keller/McBride/Mayo type, 45 year old female ambulatory surgery unit.....

d. Arthroscopic partial menisectomy, 22 year old male with knee trauma, ambulatory ..... surgery unit.

g. Reduction of unstable closed comminuted fracture of the distal radius, external ..... fixation with metallic type device, ambulatory surgery unit.

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 5 Cont'd)

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient as well as other post-operative follow-up the day of the surgery.

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
	AVERAGE MINUTES PRE-PROCEDURE WORK-UP	AVERAGE MINUTES DRESSING ETC. BEFORE PROCEDURE	AVERAGE MINUTES PERFORM-ING PROCEDURE	AVERAGE MINUTES IMMED. POST-OP FOLLOW-UP CARE
st	_____ MINS	_____ MINS	_____ MINS	_____ MINS
c	_____ MINS	_____ MINS	_____ MINS	_____ MINS
d	_____ MINS	_____ MINS	_____ MINS	_____ MINS
g	_____ MINS	_____ MINS	_____ MINS	_____ MINS

Appendix N

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 6)

We would now like an estimate of time you normally spend with the average patient before, during and after you perform an invasive procedure in a hospital setting listed in Grid 6.

COLUMN 1: INCLUDE hospital admission work-up and hospital visits before the operation.

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only the time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient.

(GRID 6)

---

a. Primary total hip replacement for osteoarthritis.....

e. Unilateral lumbar laminectomy with excision of intervertebral disc, single level, with fusion.

f. Open reduction and internal fixation of intertrochanteric fracture in 80 year old female

t. Laminectomy for decompression of spinal cord and/or cauda equina, more than two segments lumbar.

ORTHOPEDIC SURGERY PROCEDURES AND SERVICES (GRID 6 Cont'd)

COLUMN 5: INCLUDE post-operative follow-up the day of the surgery.

COLUMN 6: INCLUDE number of times you see the patient <u>after</u> the day of surgery in hospital

COLUMN 7: INCLUDE, on each of those times, the minutes you spend seeing the patient.

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7
AVE MINS FOR WORK-UP BEFORE OPERAT.	AVE MINS DRESSING ETC. BEFORE OPERAT.	AVERAGE MINS TO PERFORM. PROCED-URE	AVERAGE MINUTES POST-OPERATIVE CARE	AVERAGE MINUTES POST-OPERATIVE FOLLOW-UP	AVERAGE TIMES YOU SEE PATIENT IN HOSPITAL AFTER DAY OF SURGERY	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN COL 6
a____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
e____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
f____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
t____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS

Appendix N

SECOND
NATIONAL PHYSICIANS SURVEY

(PATHOLOGY)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

PATH

Appendix N

PATHOLOGY PROCEDURES AND SERVICES

We would like an estimate of time you spend, on average, for certain pathology services from the time you begin the service until you complete the service and report your results.

(GRID 1)

Std: An examination of a gall bladder removed for cholelithiasis.....

a. Examination of a total laryngectomy with bilateral neck dissection for squamous cell carcinoma of the larynx, post irradiation.....

b. Examination of two segments of vas deferentia from a vasectomy to induce sterility..

c. A frozen section on breast biopsy, 2-3 centimeter specimen, in a 34 year old woman, frozen section diagnosis equals tubular carcinoma.....

d. Flow cytometric DNA analysis.....

e. Examination of an acid fast stained slide of a necrotizing granulomatous lesion of lymph node.....

f. Interpretation of serum immunoelectrophoresis. .....

g. Cytologic examination of a bronchial aspirate.....

h. Interpretation of a peripheral blood smear showing atypical lymphocytes.....

i. Examination of a posterior cervical lymph node biopsy in a 46 year old man with splenomegaly, anemia and adenopathy.....

j. Interpretation of fine needle aspirate of the prostate, 10 smears.....

k. Consultation in an intrapartum bleeding diathesis.....

l. Examination of multiple endoscopically removed biopsies received in a single container from a patient with long standing ulcerative colitis.....

m. Examination of a hysterectomy and salpingo-oophorectomy in a 57 year old woman with vaginal bleeding and a slowly enlarging uterus and a 5 centimeter soft intramural nodule.....

n. Consultation for a transfusion reaction in a patient with abrupt onset of fever and back pain.....

o. Examination of a changing melanocytic lesion in a 26 year old woman.....

p. Interpretation of L/S ratio for fetal maturity.....

q. Examination of D&C for bleeding in a postmenopausal woman.....

r. Clinical pathology consultation, limited - crystal analysis of synovial fluid from the knee.....

s. Autopsy of 70 year old male who died of metastatic carcinoma, including cerebral symptoms.....

Appendix N

PATHOLOGY PROCEDURES AND SERVICES (GRID 1, cont.)

For example, when you provide a service, how many minutes do you spend performing the gross and microscopic examination of specimen(s), dictating findings, talking with other physicians, and providing any necessary follow-up.

COLUMN 1

---

std. _____ MINS

a. _____ MINS

b. _____ MINS

c. _____ MINS

d. _____ MINS

e. _____ MINS

f. _____ MINS

g. _____ MINS

h. _____ MINS

i. _____ MINS

j. _____ MINS

k. _____ MINS

l. _____ MINS

m. _____ MINS

n. _____ MINS

o. _____ MINS

p. _____ MINS

q. _____ MINS

r. _____ MINS

s. _____ MINS

Appendix N

SECOND

NATIONAL PHYSICIANS SURVEY

(THORACIC/CARDIOVASCULAR SURGERY)

Center for Survey Research
University of Massachusetts-Boston

and

Harvard School of Public Health

FALL, 1987

THOR/CARD

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES

We would like an estimate of time you spend with the average patient before, during and after you provide an evaluation or management service listed in Grid 1.

COLUMN 1: INCLUDE how many minutes are spent beforehand for preparation for seeing the patient, including reviewing records and communicating with other physicians.

(GRID 1)

---

c. Follow-up hospital visit, day 1 post-op chest tube insertion for spontaneous..... pneumothorax in 20 year old.

e. Hospital visit, day 2 post-op, following triple coronary artery bypass graft,..... 65 year old male, with no complicating associated disease.

f. Initial hospital evaluation of pulmonary tumor in 45 year old smoker, ... previously in good health.

k. Extensive initial office evaluation of 70 year old woman with increasing dysphagia.

n. Initial office evaluation of 50 year old male with aortic aneurysm, with respect... to recommendation for surgery.

u. Evaluation of 65 year old male, new patient, with chronic stable angina and..... coronary artery disease, referred by cardiologist for coronary bypass surgery.

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES (GRID 1, Cont.)

COLUMN 2: INCLUDE only the time it takes for you to provide the service itself.

COLUMN 3: INCLUDE arranging further lab studies, consultations, X-rays or other tests, reviewing results of studies, and further communications with the patient and other physicians, including written and telephone reports after the service.

	COLUMN 1 AVERAGE MINS PREPARING TO SEE PATIENT	COLUMN 2 AVERAGE MINS PERFORMING SERVICE	COLUMN 3 AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
c	_____ MINS	_____ MINS	_____ MINS
e	_____ MINS	_____ MINS	_____ MINS
f	_____ MINS	_____ MINS	_____ MINS
k	_____ MINS	_____ MINS	_____ MINS
n	_____ MINS	_____ MINS	_____ MINS
u	_____ MINS	_____ MINS	_____ MINS

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES

Now we would like you to estimate the time you spend with the average patient before, during and after you provide a service or procedure in the emergency room listed in GRID 2.

COLUMN 1: INCLUDE preparation for seeing the patient, reviewing records and communicating with other physicians.

COLUMN 2: INCLUDE only the time it takes for you to provide the service or procedure itself.

(GRID 2)

r. Tracheostomy, emergency procedure, transtracheal in adult for partial airway obstruction post trauma.....

THORACIC SURGERY PROCEDURES AND SERVICES (GRID 2, Cont)

COLUMN 3: INCLUDE arranging for further lab studies, consultations, X-rays or other tests, reviewing results of studies, further communications with the patient and other physicians, written and telephone reports, arranging for the patient to be transferred to another service and admitted to the hospital after the service or procedure.

COLUMN 1	COLUMN 2	COLUMN 3
AVERAGE MINS PREPARING TO SEE PATIENT	AVERAGE MINS PERFORMING SERVICE	AVERAGE MINS ARRANGING TESTS AND REPORTING AFTER SERVICE
r._____MINS	_____MINS	_____MINS

GO DIRECTLY TO GRID 6

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES

We would now like an estimate of time you normally spend with the average patient before, during and after you perform an invasive procedure in a hospital setting listed in Grid 6.

COLUMN 1: INCLUDE hospital admission work-up and hospital visits before the operation.

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only the time it takes for you to perform the procedure itself.

(GRID 6)

Std. Permanent single chamber cardiac pacemaker implantation with single transvenous electrode insertion into ventricle in 70 year old female with bradyarrythmia, no acute MI or significant co-morbidity.....

b. Chest tube insertion for spontaneous pneumothorax, in 20 year old.....

g. Primary diagnostic fiberoptic bronchoscopy in patient with suspected bronchopulmonary lesion, without biopsy.....

j. Mediastinoscopy in patient with suspected paratracheal lymph nodes.....

l. Thoracentesis for total evacuation in patient with effusion and suspected pulmonary tumor.....

n. Initial pericardiocentesis, 35 year old male post chest trauma.....

o. Carotid endarterectomy, unilateral, 58 year old female, with history of transient ischemic attacks.....

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES (Grid 6, Cont.)

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient

COLUMN 5: INCLUDE post-operative follow-up the day of the surgery.

COLUMN 6: INCLUDE number of times you see the patient <u>after</u> the day of surgery in hospital

COLUMN 7: INCLUDE, on each of those times, the minutes you spend seeing the patient.

	COLUMN 1 AVE MINS FOR WORK-UP BEFORE OPERAT.	COLUMN 2 AVE MINS DRESSING ETC. BEFORE OPERAT.	COLUMN 3 AVERAGE MINS TO PERFORM. PROCED-URE	COLUMN 4 AVERAGE MINUTES POST-OPERATIVE CARE	COLUMN 5 AVERAGE MINUTES POST-OPERATIVE FOLLOW-UP	COLUMN 6 AVERAGE TIMES YOU SEE PATIENT IN HOSPITAL AFTER DAY OF SURGERY	COLUMN 7 AVE MINS YOU SEE PATIENT AT THOSE TIMES IN COL 6
st	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
b.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
g.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
j.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
l.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
m.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
o.	____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES

We would now like an estimate of time you normally spend with the average patient before, during and after you perform an invasive procedure in a hospital setting listed in Grid 7.

COLUMN 1: INCLUDE hospital admission work-up and hospital visits before the operation.

COLUMN 2: INCLUDE dressing, scrubbing and waiting before the procedure.

COLUMN 3: INCLUDE only the time it takes for you to perform the procedure itself.

COLUMN 4: INCLUDE immediate postoperative care including dictating operative notes, talking with the family and other physicians, writing orders, and recovery room check of patient.

(GRID 7)	COLUMN 1 AVE MINS FOR WORK-UP BEFORE OPERAT.	COLUMN 2 AVE MINS DRESSING ETC. BEFORE OPERAT.
a. Redo CABG (3 arteries); first reoperation in 68 year old male, 3 year post original triple vein graft procedure, patent mammary artery, ejection fraction = 50%, with no complicating associated disease..... a. ____MINS		____MINS
d. Primary triple vessel coronary artery bypass graft --CABGx3--, 65 year old male, ejection fraction = 50%, with no complicating associated disease..... d. ____MINS		____MINS
h. Left upper pulmonary lobectomy, for squamous bronchogenic carcinoma..... h. ____MINS		____MINS
i. Prosthetic graft replacement of 10 centimeter abdominal infrarenal aortic aneurysm in 65 year old male, elective repair, without significant co-morbidity..... i. ____MINS		____MINS
s. Total esophagectomy with gastroesophageal anastomosis in chest..... s. ____MINS		____MINS
t. Primary aortic valve replacement in 50 year old female, prosthetic valve, ejection fraction = 50%, with no complicating associated disease..... t. ____MINS		____MINS

Appendix N

THORACIC SURGERY PROCEDURES AND SERVICES (Grid 7, Cont.)

COLUMN 5: INCLUDE post-operative follow-up the day of the surgery.

COLUMN 6: INCLUDE number of times you see the patient in the ICU after the day of surgery.

COLUMN 7: INCLUDE on each ICU visit, the minutes you spend seeing the patient.

COLUMN 8: INCLUDE number of times you see the patient in the hospital following ICU care.

COLUMN 9: INCLUDE, on each of those times, the minutes you spend seeing the patient.

COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9
AVERAGE MINS TO PERFORM. PROCED-URE	AVERAGE MINUTES POST-OPERATIVE CARE	AVERAGE MINUTES POST-OPERATIVE FOLLOW-UP	AVERAGE TIMES YOU SEE PATIENT AFTER SURGERY IN ICU	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN ICU	AVERAGE TIMES YOU SEE PATIENT IN HOSPITAL AFTER ICU CARE	AVE MINS YOU SEE PATIENT AT THOSE TIMES IN COL 8
a. ____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS
____MINS	____MINS	____MINS	____MINS	____ MINS	____ TIMES	___ MINS

Appendix O

Mapping of Surveyed Services to CPT-4 Codes

Appendix O

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Table 0.1

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Allergy and immunology:			
Q	Interp of serum immunoelectrophoresis	80500	lab path consult, limited, w/o hist/med record rev
M	A&R of intradermal tsts w antigens, immune deficiency eval	86455	skin test, anergy testing, one or more antigens
F	Init ov for eval of child w chronic wheezing	90020	office visit, new, comprehensive
L	Eval of 6yo M w mult infs, new pt	90020	office visit, new, comprehensive
N	Init off eval of adlt w chronic recurrent hives, new pt	90020	office visit, new, comprehensive
Std	Foll-up ov for pharmacological mgmt of 30yo F w hay fever	90050	office visit, established, limited
B	OV, est pt, 6yo child w sore throat and headache	90060	office visit, established, intermediate
O	OV 45yo M, est pt, chronic asthma, on chronic steroid, etc	90070	office visit, established, extended
E	Dir hosp adm, yng adlt pt, failed prev ther, asthmtic attack	90220	hospital care, new, comprehensive
R	Dir hosp adm of 62yo smoker, est pt, respiratory distress	90220	hospital care, new, comprehensive
I	Fibroscopic exam nasal, choanal, pharynx for nasal polyps	92511	nasopharyngoscopy
H	Interp of pulm function tsts, interp results, FVC, FEV, FEF	94010-26	breathing capacity test
C	Percutaneous tsts w allergenic extracts (1st 30)	95000	allergy skin tests, 1-30
A	Intracut, intradermal, tsts insects, immed react, 11-15 tsts	95017	sensitivity skin tests, 11-15
D	Intradermal tsts w allergenic extracts (1st 10)	95020	allergy skin tests, 1-10
J	Inhalation bronchial challenge tstg w histamine, etc	95070	bronchial allergy tests
G	1x inj for immunother, antigen supp by another source	95135	supervision/provision antigens for immunotherapy
K	Prof svcs for supervs and prov antigens, allergen immunother	95150	antigen therapy services
P	Med conf w pt. and/or family, counseling for avoidance, etc	99156	conference with physician, approx 50 minutes

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Anesthesiology:			
M	Anesth for lens surgery, cataract extraction, etc	00142	anesthesia for lens surgery
T	Anesth for craniectomy or craniotomy	00210	anesth, open head surgery
P	Anesth for carotid endarterectomy	00350	anesth, major neck vessel surgery
S	Anesth for modified radical mastectomy	00404	anesth, surgery of breast
A	Anesth for CABG w pump oxygenator	00562	anesth, heart vessel repair with pump oxygenator
K	Anesth for rep of AAA	00770	anesth, major abdominal blood vessel repair
F	Anesth for cholecystectomy	00790	anesth, surgery of upper abdomen
E	Anesth for laparoscopic tubal ligation	00806	anesth, laparoscopic procedures
Std	Anesth for inguinal hernia rep	00830	anesth, repair of hernia lower abdomen
C	Anesth for colectomy	00840	anesth, surgery of lower abdomen
U	Anesth for cesarean section	00850	anesth, cesarean section
B	Anesth for cystoscopy	00910	anesth, transurethral procedures
O	Anesth for transurethral resection of prostate	00914	anesth, transurethral removal of prostate
L	Anesth for D&C of uterus	00940	anesth, vaginal procedures
J	Anesth for open reduction and int fixation hip fx	01210	anesth, hip joint surgery
G	Anesth for total hip replmnt	01214	anesth, replacement of hip
D	Anesth for femoral-popliteal bypass	01270	anesth, upper leg arteries surgery
I	Anesth for knee arthroscopy	01382	anesth, knee arthroscopy
Q	Regional IV anesth for upper extremity op	01710	anesth, upper arm surgery
R	Inj of anesthetic substance, therapeutic, 1x, epidural block	62278	inject spinal anesth, epidural or caudal, single[1]
V	Consult for transfusion react in pt w fever and back pain	90620	comprehensive consultation
N	Eval 63yo pt, ICU w diabetes and chronic renal failure, etc	90630	complex consultation
H	Insertion of Swan Ganz catheter	93503	right heart catheterization, flow directed catheter

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Dermatology:			
L	Shave/punch biopsy probable skin cancer	11100	biopsy of skin, one lesion
A	Excision changing pigmnted lesion back, 6x4 mm, 52yo M	11401	removal benign skin lsn, trunk, 0.6 To 1.0 Cm diam
U	Excision of 2 facial nevi, 20yo M, 8 and 4 mms respectively	11441	removal benign skin lsn, face, 0.6 To 1.0 Cm diam
N	Excision & intermed rep of 4 by 6 mm BCE of forehead 30yo F	11641	removal malignant skin lsn, face, 0.6 To 1.0 Cm dia
M	C&E of 10 by 12 mm (BCE) of cheek of 60yo M	11642	removal malignant skin lsn, face, 1.1 To 2.0 Cm dia
F	Intralesional inj, triamcinolone	11900	injection into skin lesions, less than 8 lesions[1]
B	Cryodest mult, 3 to 4, facial actinic keratoses, 65yo farmer	17000	destruction of face lesion, one lesion[1]
O	Liquid nitrogen cryodestruction 3 verrucae hands of 14yo M	17100	destruction of skin lesion, one lesion[1]
I	Off revisit w est 63yo pt, laser tx hemangioma	17999	skin tissue procedure, unlisted
Q	X-ray ther, BCE tip of nose 65yo F, 1x tx, not entire course	77400	daily radiation therapy, simple
D	Obtain specimen Tzanck Smear and interp of tst	87207	smear, stain & interpret, inclusion bodies/parasite
H	Obtain specimen for KOH slide and interp of tst	87220	tissue exam for fungi
S	Path gross and micro exam, melanocytic lesion, 26yo F	88305	surg path, single compl/multip uncomp, compl dissct
C	Init ov, eval and counseling 17yo F w primary genital herpes	90017	office visit, new, extended
E	Init ov, 35yo M w complaint of alopecia	90017	office visit, new, extended
J	Init ov, 16yo M w severe cystic acne, new pt	90017	office visit, new, extended
R	Init off eval, adlt w chronic recurrent hives, new pt	90020	office visit, new, comprehensive
T	Init comp eval 30yo F w symptoms of SCLE	90020	office visit, new, comprehensive
Std	Foll-up visit w 48yo M ongoing mgmt psoriasis not PUVA tx	90050	office visit, established, limited
G	Off revisit for eval of 28yo M w onychomycosis	90050	office visit, established, limited
P	Hosp consult, poss drug eruption, 50yo M	90620	comprehensive consultation
K	Photochemother (PUVA), scheduled tx during ther	96912	photochemotherapy with uv-a

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Family practice:			
C	Rep of 2 inch laceration of scalp, 14yo M, off setting	12002	repair superficial wound(s), 2.6 To 7.5 Cm[1]
D	Appendectomy, acute abdomen w unperforated appendicitis	44950	appendectomy
E	Rigid sigmoidoscopy, wo biopsy, in off	45300	proctosigmoidoscopy, diagnostic
F	Incision & drainage of peri-anal abscess, off proc	46050	incision of perianal abscess[1]
G	Abdominal hysterectomy, cancer in situ of cervix, 50yo F	58150	total hysterectomy
H	Uncomplicated spontaneous vaginal delivery	59410	vaginal delivery only, incl in-hosp postpartum care
I	Urinalysis w micro exam, off lab, supervs, excl collection	81000	urinalysis with microscopy
J	Obtain specimen for KOH slide and interp of tst	87220	tissue exam for fungi
K	Init visit pregnancy 25yo primigravida, hx and exam, etc.	90020	office visit, new, comprehensive
Std	Foll-up visit 55yo M, mgmt hypertension, beta/thiazide	90050	office visit, established, limited
B	Off revisit for eval of 28yo M w onychomycosis	90050	office visit, established, limited
L	Ov, est pt, 6yo child w sore throat and headache	90050	office visit, established, limited
M	Off eval, poss purulent conjunctivitis 16yo F, est pt	90050	office visit, established, limited
N	Routine gyn exam, 24yo est pt, wo complaints	90060	office visit, established, intermediate
O	Ov 45yo M, est pt, chronic asthma, on chronic steroid, etc.	90060	office visit, established, intermediate
P	Off eval new onset right lower quad pain in 32yo F, est pt	90070	office visit, established, extended
Q	Off eval 28yo pt regional enteritis, diarrhea, est pt	90070	office visit, established, extended
A	Dir hosp adm yng adlt est pt, acute asthma attack	90220	hospital care, new, comprehensive
R	Sched monthly NH visit to est pt w Organic Brain Syndrome	90350	care facility subsequent visit, limited
S	NH visit, unsched, eval pt w fever and obtundation, etc.	90370	care facility subsequent visit, extended
T	Mgmt pt acute pulm edema in ER, subsequent hosp adm, est pt	90570	emergency care, established, extended
U	Off consult psych exam 25yo M, intellect deterioration, etc.	90620	comprehensive consultation
V	Emerg hosp consult, 72yo, new pt, w poss bowel obstruction	90630	complex consultation
W	Comp well child visit at 6 months, est pt (AAP guidelines)	90764	preventive medicine, established, infant
X	Phone consult, pt home, 1:30 A.M., belching, etc.	99015	phone consult, lengthy or complex
Y	1x supervs conf w nurse, antibiotic ther, est pt w SBE	99155	conference with physician, approx 25 minutes

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
General surgery:			
C	Regional IV anesth, upper extremity op, surg by other	01710	anesth, upper arm surgery
D	Modified radical mastectomy	19240	mastectomy, mod radical incl axillary lymph nodes
E	Tracheostomy, emerg proc, transtracheal, in adlt, etc.	31603	tracheostomy, emergency, transtracheal
B	Chest tube insertion for spontaneous pneumothorax in 20yo	32020	tube of thoracostomy with water seal
F	Tonsillectomy and adenoidectomy in 10yo child	42820	remove tonsils and adenoids, under age 12
A	Tot esophagectomy w gastroesophageal anastomosis in chest	43110	esophagectomy, gastric anastomosis with vagotomy
G	Low anterior resection for rectal CA	44145	partial removal of colon, with coloproctostomy
H	Appendectomy, acute abd w unperforated appendicitis	44950	appendectomy
I	Rigid sigmoidoscopy, wo biopsy, in off	45300	proctosigmoidoscopy, diagnostic
J	Colonoscopy and polypectomy, 53yo M, etc., outpt	45385	colonoscopy, lesion removal
K	Cholecystectomy for cholelithiasis	47600	cholecystectomy
Std	Uncomplicated indir inguinal hernia rep, 45yo M	49505	repair inguinal hernia, age 5 or over
L	Abdominal hysterectomy, cancer in situ of cervix, 50yo F	58150	total hysterectomy
M	Decompression carpal tunnel, 48yo F, unilat, ambulatory surg	64721	revise median nerve at wrist
N	Excision 0.5 cm basal cell CA, outer 1/3 lower eyelid	67840	remove eyelid lesion[1]
O	Preoperative eval new pt w primary hyperparathyroidism	90020	office visit, new, comprehensive
P	Comp ov, init eval 48yo M recurrent low back pain to leg	90020	office visit, new, comprehensive
Q	Foll-up ov, 60yo est pt 8 weeks post partial colectomy, etc.	90050	office visit, established, limited
R	Foll-up visit, post tx, pt w primary breast cancer	90060	office visit, established, intermediate
S	Off eval new onset right lower quad pain in 32yo F, est pt	90070	office visit, established, extended
T	Hosp adm, 45yo F w acute cholecystitis	90220	hospital care, new, comprehensive
U	Hosp visit, 3 days post uncomplicated cholecystectomy, etc.	90250	subsequent hospital visit, limited
V	Init eval mgmt mult trauma pt w complex pelvic fx, 35yo M	90630	complex consultation
W	Emerg hosp consult, 72yo, new pt, poss bowel obstruction	90630	complex consultation
X	Insertion of Swan-Ganz catheter	93503	right heart catheterization, flow directed catheter
Y	Triage, resus and hosp adm from ER, 52yo, alcoholic, etc.	99160	critical care, each hour

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Internal medicine:			
C	Aspiration of synovial fluid from knee	20610	inject/drain joint/bursa[1]
D	Rigid sigmoidoscopy, wo biopsy, in off	45300	proctosigmoidoscopy, diagnostic
E	Urinalysis w micro exam, off lab, supervs, excl collection	81000	urinalysis with microscopy
F	Init off eval, diagnosis and mgmt hematuria, etc.	90017	office visit, new, extended
S	Init eval and mgmt of recurrent urinary tract inf in F	90017	office visit, new, extended
Std	Foll-up visit 55yo M, mgmt hypertension, beta/thiazide	90050	office visit, established, limited
B	Ov, sore throat, fever, fatigue 19yo college student, est pt	90050	office visit, established, limited
H	Off eval, poss purulent conjunctivitis 16yo F, est pt	90050	office visit, established, limited
I	Ov 45yo M, est pt, chronic asthma, on chronic steroid, etc.	90060	office visit, established, intermediate
J	Off eval new onset right lower quad pain in 32yo F, est pt	90070	office visit, established, extended
L	Off eval 28yo pt regional enteritis, diarrhea, est pt	90070	office visit, established, extended
K	Ov eval recent onset syncopal attacks, 70yo F, est pt	90080	office visit, established, comprehensive
M	Dir hosp adm of 62yo smoker, est pt, respiratory distress	90220	hospital care, new, comprehensive
N	Foll-up hosp visit, day 2, pt non-dominant CVA, etc.	90260	subsequent hospital visit, intermediate
O	Hosp visit, day 3 post adm, 65yo M uncomplicated MI, est pt	90260	subsequent hospital visit, intermediate
P	Sched monthly NH visit to est pt w Organic Brain Syndrome	90350	care facility subsequent visit, limited
Q	NH visit, unsched, for eval pt w fever and obtundation, etc.	90370	care facility subsequent visit, extended
A	Mgmt pt acute pulm edema in ER, subsequently adm hosp, est pt	90570	emergency care, established, extended
R	Hosp consult for diagnosis/mgmt of fever foll abdominal surg	90610	extended consultation
G	Emerg hosp consult, 72yo, new pt, w poss bowel obstruction	90630	complex consultation
T	Init off eval of a 37 generally well M	90750	preventive medicine, new, adult
U	ECG w interp in a 50yo M	93000	electrocardiogram, complete, minimum 12 leads
V	Off phone consult re: poss adverse drug react in est pt	99014	phone consult, intermediate
W	Phone consult pt home, 1:30 A.M., belching, etc.	99015	phone consult, lengthy or complex
X	1x supervs conf w nurse, antibiotic ther, est pt w SBE	99155	conference with physician, approx 25 minutes

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV Service description		CPT-4 number	CPT-4 Service description
Oral/maxillofacial surgery:			
J	Excision of 0.5 cm benign lesion of the lip in a 60yo F	11441	removal benign skin lsn, face, 0.6 To 1.0 Cm diam
I	Bilat sagitt osteotomy, mandib ramus 20yo F, etc.	21200	osteotomy, mandible, total or horizontal
W	Unilat meniscoplasty, temporomandibular joint	21240	arthroplasty, tmj, with or without autograft
A	LeFort 1 maxill and sagit split mandib osteotomies, etc.	21250	osteoplasty of maxilla, lefort type operation
T	Open tx, mult fx zygomatic arch and malar tripod, etc.	21365	open repair cheek bone fracture
P	Closed reduction mandib fx by manipulation, etc.	21455	closed repair lower jaw fracture
Q	Open surgical tx, complex mandib fx, etc.	21470	open repair lower jaw fracture
U	Unilat arthroscopy of temperomandibular joint	29909	arthroscopy of joint, unlisted procedure
O	Unilat Caldwell-Luc proc, etc., w antral polyp remov	31032	explore sinus,remove polyps, unilateral
S	Perf and interp bilat Xray TMJ, open and closed, etc.	70330	x-ray exam of jaw joints
R	Interp panoramic x-rays remov impacted wisdom teeth, etc.	70355-26	panoramic x-ray of jaws
B	Ov to advise remov wisdom teeth, 18yo M, etc.	90015	office visit, new, intermediate
L	Ov 45yo F smoker w small oral ulcer on lateral border tongue	90015	office visit, new, intermediate
K	Comp eval 28yo F, 2 year hx facial/TMJ pain, etc.	90020	office visit, new, comprehensive
V	Placement of 4 maxill endosseous implants	D0597	Placement 4 max endosseous implants
G	Extract 10 erupted mandib teeth, 60yo M on Persantine, etc.	D7110	Extr 10 erupted mand tth, 60yo on Pers
H	Extract of abscessed tooth in a healthy 40yo M	D7110	Extr absc tth in a healthy 40yo
C	Remov 4 impact (full bony) wisdom teeth, 1x off proc, 21yo M	D7240	Rmvl 4 imp (full bony) w/t, off proc
D	Remov 4 impact (full bony) wisdom teeth, 1x hosp proc, 21yo M	D7240	Rmvl 4 imp (full bony) w/t, hosp proc
Std	Expos 1x impact cuspid, off, 14yo future ortho tx, etc.	D7281	Exp 1 imp cuspid off 14yo, fut ortho tx
E	Gen anesth 14yo child, expos 1 impacted cuspid, off setting	D9220	Gen anes 14yo exp 1X imp cusp, office
F	Gen anesth extract abscessed tooth in healthy 40yo M	D9220	Gen anes extr abscd tth healthy 40yo
M	Gen anesth, off extract 4 wisdom teeth healthy 18yo M, etc.	D9220	Gen anes in off extr 4 w/t hlthy 18yo
N	Gen anesth for extract of fx tooth in 4yo child	D9220	Gen anes extr fxd tooth in 4yo child

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Obstetrics and gynecology:			
N	Colposcopy abnorm cervical cytology, Pap smear, w biopsy	57454	vagina examination & biopsy[1]
Std	Diagnostic D&C for menometrorrhagia in 50 yo F	58120	dilation and curettage
J	Abdominal hysterectomy, cancer in situ of cervix, 50 yo	58150	total hysterectomy
V	Vaginal hysterectomy, anterior and posterior colporrhaphy	58265	vaginal hysterectomy & vagina repair
I	Ovarian cystectomy, unilateral, uncomplicated, in 25 yo	58925	removal of ovarian cyst(s)
O	Laparoscopic tubal sterilization by fulguration in 35 yo	58982	laparoscopy, tubal cautery
S	Perf of amniocentesis at 16 weeks gestation	59000	amniocentesis[1]
T	Interp of fetal non stress tst	59025-26	fetal non-stress test
M	Uncomplicated spontaneous vaginal delivery	59410	vaginal delivery only, incl in-hosp postpartum care
Q	Uncomplicated cesarean delivery, cephalopelvic disproportion	59500	cesarean section, incl in-hosp postpartum care
W	Elective term 1st trimester pregnancy, evac and curettage	59840	abortion
R	Fetal ultrasound poss fetal abnorm, B-scan w image doc	76805	echo exam of pregnant uterus, b-scan, complete
Y	Intracavitary radioelement app, pt w cervical cancer, etc.	77763	radioelement application, complex
A	Init off eval secondary amenorrhea, 22 yo new pt, etc.	90017	office visit, new, extended
U	Init ov eval and counseling 17 yo F w primary genital herpes	90017	office visit, new, extended
C	Init visit pregnancy 25 yo primigravida, hx and exam, etc.	90020	office visit, new, comprehensive
X	Init ov 34 year pt w primary infertility, incl counseling	90020	office visit, new, comprehensive
B	Limited prenatal foll-up visit, hx and exam, etc.	90050	office visit, established, limited
P	Ov postpartum care 6 weeks, uncomplicated vaginal delivery	90050	office visit, established, limited
D	Ext foll-up prenatal visit at 36-37 weeks, etc.	90060	office visit, established, intermediate
K	Routine gyn exam, primary care phys, est pt, wo complaints	90060	office visit, established, intermediate
L	Off eval new onset right lower quad pain in 32 yo F, est pt	90070	office visit, established, extended
Z	Ov counseling 25yo primigravida, family hx of Downs Syndrome	90070	office visit, established, extended
E	Normal uncomplicated labor, multipara, no risk, 1x w pt	?????	Norm uncomp labr, multip, etc, time w pt
F	Labor, moderate hypertension, etc., 1x spent w pt	?????	Labor, mod hypertnsn, etc, time w pt
G	Preterm labor, req tocolysis, etc., 1x spent w pt	?????	Pretrm labr etc req tocolysis, time w pt
H	Protracted labor req pitocin, etc., 1x spent w pt	?????	Prot labor, pitocin etc, time w pt

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV Service description		CPT-4 number	CPT-4 Service description
Ophthalmology:			
I	Lid surg, two-lid blepharoplasty, both upper lids	15822-50	revision of upper eyelid
A	Penetrating keratoplasty, cataract extract and IOL implant	65740	corneal transplant, fresh
L	Glaucoma filtering proc, primary, trabeculotomy	65850	incision of eye
J	Extracapsular cataract extract w IOL	66984	remove cataract, insert lens
E	Secondary lens implant, wo vitrectomy	66985	insert lens prosthesis after cataract removal
T	Refractive surg, radial keratotomy	66999	unlisted procedure, anterior segment of eye
M	Scleral buckle, wo vitrectomy, primary	67107	repair detached retina, scleral buckling
N	Panretinal photocoagulation, tot tx, one eye, etc.	67228	treatment of retinal lesion, photocoagulation
K	Commitant strabismus surg, primary, etc., in a child	67312	strabismus surgery, two muscles, one or both eyes
Std	1x chalazion proc, excision, left upper lid	67800	excision of chalazion, single
U	Excision of 0.5 cm basal cell CA, outer 1/3 lower eyelid	67840	remove eyelid lesion[1]
H	Diagnostic ultrasonography eye ball w interp, B-Mode, etc.	76512	echo exam of eye, b-scan
G	IOL calculation, biometry/keratometry, A-mode	76516	echo biometry of eye, a-mode
S	Off eval poss purulent conjunctivitis 16yo F, est pt	90050	office visit, established, limited
D	Consult/ext eval complex ophthalmic problem, etc.	90630	complex consultation
C	Comp eye exam, adlt pt w no specific complaints, hx, etc.	92004	new eye exam & treatment, comprehensive
O	Contact lens eval and fitting, incl comp eye exam, etc.	92004	new eye exam & treatment, comprehensive
B	Foll-up exam, est pt, incl visual acuity, slit lamp, etc.	92012	eye exam & treatment, established, intermediate
F	Interp formal visual fields tsts, neuro purposes, adlt	92082-26	visual field examination(s), intermediate
Q	Fluorescein angiography diabetic retinopathy, etc., interp	92235	ophthalmoscopy/fluorescein angiography
P	Interp of fundus photography	92250-26	ophthalmoscopy, fundus photography
R	Endothelial cell count pre-op cataract surg	92286	internal eye photography, cell count

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Orthopedic surgery:			
R	Aspiration of synovial fluid from knee, off proc	20610	inject/drain joint/bursa
M	Closed reduction, subluxation head radius, 4yo M, off setting	24640	treat radial head dislocation, child[1]
G	Reduction unstable closed comminuted fx distal radius, etc.	25611	repair fracture radius/ulna, percut pins and plaste
A	Primary tot hip replacement for osteoarthritis	27130	total hip joint replacement
F	Open reduction and int fixation, intertrochanteric fx 80yo F	27244	open repair of femur fracture
C	Bunionectomy, Keller/McBride/Mayo type, 45yo F, etc.	28292	correction of bunion, keller mcbride mayo procedure
D	Arthroscopic partial menisectomy, 22yo M, knee trauma, etc.	29881	knee arthroscopy/surgery, meniscectomy
T	Laminectomy, decompression spinal cord, cauda equina, etc.	63017	removal of spinal lamina, lumbar
E	Unilat lumbar laminectomy, excision intervertebral disc, etc.	63030	low back disk surgery, unilateral
Std	Decompression carpal tunnel, 48yo F, unilat, ambulatory surg	64721	revise median nerve at wrist
L	Interp lumbar spine X-rays, complete radiograph exam, etc.	72110-26	x-ray exam of lower spine, compl, with oblique v
S	Perf and interp a lumbar myelogram, 68yo F	72266	myelography, lower spine, complete procedure
P	Interp elbow x-rays: complete radiograph exam, for pain, etc.	73080-26	x-ray exam of elbow, complete, minimum three vie
O	Interp x-rays, tx comminuted fx distal radius, 3 views, etc.	73110-26	x-ray exam of wrist, complete, minimum three vie
U	Interp hip x-rays, complete, for moderate/severe hip pain	73510-26	x-ray exam of hip, complete, minimum two views
Q	Interp foot x-rays, poss fx, complete radiograph exam, etc.	73630-26	x-ray exam of foot, complete, minimum three view
N	1st visit eval and counseling 28yo M runner, knee/calf pain	90017	office visit, new, extended
H	Comp init off visit for eval 13yo F w progressive scoliosis	90020	office visit, new, comprehensive
I	Comp ov, init eval 48yo man recurrent low back pain to leg	90020	office visit, new, comprehensive
K	Intermed ov, est pt known osteoarthritis and swollen knees	90060	office visit, established, intermediate
B	Day 3 or 4 post-op foll-up, 80yo F, rep intertrochanteric fx	90250	subsequent hospital visit, limited
J	Init eval, mgmt mult trauma pt, complex pelvic fx, 35yo M	90630	complex consultation

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Otolaryngology:			
R	Closed reduction nasal fx, stabilization, post trauma 20yo M	21320	treatment of nose fracture with stabilization
F	Septorhinoplasty, primary rhinoplasty septal rep, 25yo M	30420	rhinoplasty, primary, with major septal repair
T	Unilat Caldwell-luc proc, maxill sinus disease, polyp remov	31032	explore sinus,remove polyps, unilateral
A	Laryngectomy, w radical neck dissection for cancer in 65yo M	31365	removal of larynx, radical neck dissection
G	Dir laryngoscopy w biopsy, suspected CA, 50yo M, gen anesth	31535	operative laryngoscopy, direct, with biopsy
M	Tracheostomy, emerg proc, transtracheal, adlt, etc.	31603	tracheostomy, emergency, transtracheal
E	Diagnostic fiberoptic bronchoscopy, bronchopulm lesion	31621	bronchoscopy, diagnostic, flexible or rigid
O	Uvulopalatal pharyngoplasty, upper airway obstruction	42145	repair,palate,pharynx/uvula
L	Parotidectomy, lateral lobe, dissection, etc.	42415	excise lat lobe parotid gland/lsn, preserv fac nerv
Std	Tonsillectomy and adenoidectomy in 10yo child	42820	remove tonsils and adenoids, under age 12
Q	Acoustic neuroma resection in adlt, translabyrinthine	61526	removal of brain lsn, cerebellopontine angle tumor
U	Remov of foreign body from ear canal wo gen anesth	69200	clear outer ear canal, without general anesthesia
D	Bilateral tympanostomy tube insertion, etc., 2yo, gen anesth	69437	tympanostomy, general anesthesia, bilateral
H	Tympanoplasty w mastoidectomy for cholesteatoma in adlt	69641	revise mid ear & mastoid, w/o ossicular chain recns
P	Cochlear implant, child, bilat sensorineural hearing loss	69930	implant cochlear device
C	Init off eval gradual hearing loss, 58yo M, hx, etc.	90017	office visit, new, extended
N	Eval hoarseness and dysphagia, 65yo M incl hx and physical	90017	office visit, new, extended
I	Eval recurrent dizziness and vertigo 48yo F, incl hx, etc.	90020	office visit, new, comprehensive
S	Rhinoplasty eval, 25yo F, incl hx, physical, etc.	90020	office visit, new, comprehensive
B	Ov, sore throat, fever, fatigue, 19yo college student, est pt	90050	office visit, established, limited
K	Interp of spontaneous nystagmus tst, w recording (ENG)	92541-26	spontaneous nystagmus test
J	Interp of audiometry, basic, comp	92557-26	comprehensive audiometry

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Pathology:			
F	Interp of serum immunoelectrophoresis	80500	lab path consult, limited, w/o hist/med record rev
P	Interp of L/S ratio for fetal maturity	80500	lab path consult, limited, w/o hist/med record rev
R	Clinical path consult, ltd-crystal analysis synovial fluid	80500	lab path consult, limited, w/o hist/med record rev
K	Consult in an intrapartum bleeding diathesis	80502	lab path consult, compreh, history/med record rev
H	Interp peripheral blood smear showing atypical lymphocytes	85060	blood smear interpretation
N	Consult for transfusion react in pt w fever and back pain	86078	physician blood bank service, invest transf reactio
G	Cytologic exam of a bronchial aspirate	88104	cytopathology, smears with interpretation
J	Interp of fine needle aspirate of the prostate, 10 smears	88173	fine needle aspirate, interpretation and report
B	Exam two segments vas deferentia, etc., to induce sterility	88302	surgical pathology, complete, normal tissue
Std	Exam of a gall bladder removed for cholelithiasis	88304	surgical pathology, complete, abnormal tissue
I	Exam posterior cervical lymph node biopsy, 46yo M, etc.	88305	surg path, single compl/multip uncomp, compl dissct
L	Exam mult endoscopically remov biopsies, etc., pt w colitis	88305	surg path, single compl/multip uncomp, compl dissct
O	Exam of a changing melanocytic lesion in a 26yo F	88305	surg path, single compl/multip uncomp, compl dissct
Q	Exam of D&C for bleeding in a postmenopausal F	88305	surg path, single compl/multip uncomp, compl dissct
M	Exam hysterectomy and salpingo-oophorectomy, 57yo F, etc.	88307	surg path, single or multiple compl, compl dissctn
A	Exam of a tot laryngectomy etc., CA of larynx, etc.	88309	surg path, complete, complex diagnostic problem
E	Exam acid fast stained slide, etc., lesion of lymph node	88312	special stains, each
C	Exam frozen section breast biopsy, 2-3 cm, 34yo F, etc.	88331	consult during surg, frozen section(s), single spec

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Pediatrics:			
P	Rep of 2 inch laceration of scalp, 14yo M, off setting	12002	repair superficial wound(s), 2.6 To 7.5 Cm
M	Closed reduction, subluxation, head of radius at elbow, 4yo M	24640	treat radial head dislocation, child[1]
K	Intubation of newborn	31500	intubation, endotracheal, emergency procedure
N	Lumbar puncture of 5yo for suspected meningitis	62270	spinal fluid tap, diagnostic[1]
U	Remov of foreign body from ear canal wo gen anesth	69200	clear outer ear canal, without general anesthesia
Q	Urinalysis w micro exam, off lab, excl collection	81000	urinalysis with microscopy
H	Init visit of adolescent F w abd pain, new pt	90020	office visit, new, comprehensive
L	Poss of sexual abuse in 5yo F, new pt	90020	office visit, new, comprehensive
S	Init ov for eval of child w chronic wheezing	90020	office visit, new, comprehensive
B	Off eval of diaper dermatitis, est pt	90040	office visit, established, brief
Std	Ov, est pt, 6yo child w sore throat and headache	90050	office visit, established, limited
R	Off eval, poss purulent conjunctivitis 16yo F, est pt	90050	office visit, established, limited
I	Off eval head trauma, pre-school child w vomiting, est pt	90060	office visit, established, intermediate
O	Foll-up visit, adolescent w behavior problem, etc., est pt	90070	office visit, established, extended
G	Hosp adm for 18 month old child w 10% dehydration	90220	hospital care, new, comprehensive
F	Comp well child visit at 15 years, new pt (AAP Guidelines)	90751	preventive medicine, new, 12-17
E	Comp well child visit at 5 years, new pt (AAP Guidelines)	90752	preventive medicine, new, 5-11
D	Comp well child visit at 2 years, est pt (AAP Guidelines)	90763	preventive medicine, established, 1-4
C	Comp well child visit at 6 months, est pt (AAP Guidelines)	90764	preventive medicine, established, infant
T	Phone call during off hours for child w rash on Amoxicillin	99013	phone consult, simple or brief
J	2:00 A.M. phone call for crying child under 12 months	99014	phone consult, intermediate
A	Attendance in delivery room w resus of 2000 gram infant	99152	newborn resuscitation

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Psychiatry:			
F	Repeat hosp visit stabilized 42yo M, schizophrenia, etc.	90250	subsequent hospital visit, limited
A	ER eval, intervention 25yo M, voices, attempt stab, etc.	90520	emergency care, new, comprhensive
L	Hosp ER eval 78yo F, ingested alcohol and valium, suicide	90520	emergency care, new, comprhensive
D	Hosp consult, psych eval 68yo surg, post-op depression	90620	comprehensive consultation
N	Off consult psych eval 65yo M, intellect deterioration, etc.	90620	comprehensive consultation
W	Eval & level care decision 17yo adolescent, schizo, etc.	90620	comprehensive consultation
Q	Eval 24yo M, murder, competency to stand trial, etc.	90630	complex consultation
V	Court-requested eval juvenile, attempted rape a 71yo F, etc.	90630	complex consultation
M	Ov diag interview & eval 17yo M, personality change, etc.	90801	psychiatric diagnostic interview
S	Ov diag reeval 68yo F, chronic depression, unresponsive tx	90801	psychiatric diagnostic interview
E	Eval records and reports, 69yo F, pre-syncopal episodes, etc.	90825	psychiatric evaluation of tests/records
B	Phone conv, retarded mother of 18yo schizophrenic M, etc.	90831	psychiatric telephone consultation
Std	2nd ov after referral from internist, 25yo M panic attacks	90844	individual psychotherapy, 45 to 50 minutes
C	Foll-up psychother ov, 48yo housewife for tx of agoraphobia	90844	individual psychotherapy, 45 to 50 minutes
G	Ov, term 66yo business executive 2x weekly psychother, etc.	90844	individual psychotherapy, 45 to 50 minutes
H	Weekly med psychother and pharmacother ov, 36yo F, etc.	90844	individual psychotherapy, 45 to 50 minutes
U	Ov individ psychoanalysis 42yo, passive-aggressive, etc.	90844	individual psychotherapy, 45 to 50 minutes
I	Family psychother, husband of 28yo F, bipolar illness, etc.	90847	special family psychotherapy
T	Ov family psychother, 38yo father incestuous w 12yo daughter	90847	special family psychotherapy
J	Mult family group med psychother of families, in-pts, etc.	90849	special multiple-family group psychotherapy
K	Group med psychother in-off, 6 pts seen weekly, etc.	90853	special group psychotherapy
O	Ov chemother for mgmt of 44yo M w bipolar depression	90862	psychiatric chemotherapy management
P	Electroconvulsive ther, 1x seizure, 82yo widowed M hosp, etc.	90870	electroconvulsive therapy, single siezure
X	Prep report to DMH halfway house coord, 3-week hosp, etc.	90889	preparation of patient psychiatric status report
R	1x supervisory conf, team RNs, SWs, andn MHWs, psych unit	90899	unlisted psychiatric service/therapy

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Radiology:			
O	Interp of complete skull series for headaches in an adlt	70260-26	x-ray exam of skull, minimum four views
B	Interp chest x-rays, 2 views, frontal & lateral, etc.	71020-26	x-ray exam of chest, two views
C	Interp bilat rib x-rays, incl posteroanterior chest, etc.	71111-26	x-ray exam of ribs, chest, minimum four views
Q	Interp lumbar spine x-rays, complete radiograph exam, etc.	72110-26	x-ray exam of lower spine, compl, with oblique v
K	MRI spinal cord, incl spine, unexplained motor weakness, etc.	72140	magnetic resonance imaging, spinal cord and spine
S	Perf & interp a lumbar myelogram, 68yo F	72266	myelography, lower spine, complete procedure
T	Interp of hip x-rays, complete, for moderate/severe hip pain	73510-26	x-ray exam of hip, complete, minimum two views
I	Interp rad exam ankle, complete, min 3 views, etc., fx	73610-26	x-ray exam of ankle, complete, minimum three vie
L	Interp complete abd incl decubitus, etc., intest obstruction	74020-26	x-ray abdomen, compl, incl decubitus and/or erec
F	Interp computerized axial tomography, abd, etc., cancer	74160-26	contrast cat scan of abdomen
Std	Upper GI series, air contrast technique, KUB abd pain, etc.	74247	contrast xray upper gi tract, with kub
D	Barium enema, double contrast, complete proc, occult GI, etc.	74280	contrast x-ray exam of colon
M	IV urography, pyelography incl kidneys, ureters, etc.	74400	contrast x-ray urinary tract
R	Hysterosalpingography, complete proc, 26yo F w infertility	74741	x-ray female genital tract, complete
A	Cervicocerebral angiography, selective catheter, etc.	75657	artery x-rays, head & neck, 3 or 4 vessels, complet
N	Venography, unilat, complete proc, poss vein thrombosis, etc.	75821	vein x-ray, arm/leg, unilateral, complete
J	Interp mammography, bilat, for 50yo pt w pain in breasts	76091-26	x-ray exam of breasts
H	Computerized tomography guidance needle biopsy, etc.	76361	cat scan for needle biopsy, complete
E	Complete abd echography, B-scan, image doc, complete, etc.	76700	echo exam of abdomen, b-scan, complete
G	Echography pregnant uterus, B-scan image doc, complete, etc.	76805	echo exam of pregnant uterus, b-scan, complete
P	Interp bone density study, dual photon absorbtiometry, etc.	78351-26	bone mineral content study, dual photon

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Rheumatology:			
G	Inj corticosteroid prep into tendon sheath or trigger point	20550	injection, tendon sheath[1]
E	Aspiration of synovial fluid from knee	20610	inject/drain joint/bursa[1]
B	Interp x-rays, hands, bilateral, acute rheumatoid arthritis	73120-26	x-ray exam of hand, two views
Q	Interp of hip x-rays, complete, for moderate/severe hip pain	73510-26	x-ray exam of hip, complete, minimum two views
L	Interp bone density study, dual photon absorptiometry, etc.	78351-26	bone mineral content study, dual photon
R	Interp of platelet count, Coulter counter	85595-26	electronic platelet count
P	Interp of sed rate, (ESR) Westergren type	85651-26	rbc sedimentation rate, westergren type
F	Perf & interp cell count, differential, etc., synovial fluid	89051	body fluid cell count with differential
A	Init off eval SLE, fever, seizures and thrombocytopenia	90020	office visit, new, comprehensive
C	Init off eval of 70yo F w polyarthralgia	90020	office visit, new, comprehensive
H	Init off eval pt, negative lab and x-ray studies, fibrositis	90020	office visit, new, comprehensive
K	Init off eval & mgmt pt, vasculitis and circulation	90020	office visit, new, comprehensive
O	Comp init eval 48yo M recurrent back pain radiating to leg	90020	office visit, new, comprehensive
Std	Foll-up ov, etc., Stage II, Class II, rheumatoid arthritis	90050	office visit, established, limited
N	Ltd ov, est pt known osteoarthritis and painful swollen knees	90050	office visit, established, limited
I	Foll-up visit 45yo, rheumatoid arthritis on gold, etc.	90060	office visit, established, intermediate
J	Foll-up visit 40yo mother, Stage III, Class III, etc.	90070	office visit, established, extended
D	Consult hosp, 35yo F, fever, swelling joints, rash, etc.	90630	complex consultation
M	Foll up off consult, 45yo M ankylosing spondylitis, etc.	90642	intermediate followup consult

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Table O.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Thoracic/cardiovascular surgery:			
R	Tracheostomy, emerg proc, transtracheal, in adlt, etc.	31603	tracheostomy, emergency, transtracheal
G	Primary diag fiberoptic bronchoscopy, bronchopulm lesion	31621	bronchoscopy, diagnostic, flexible or rigid
L	Thoracentesis, tot evac, effusion and suspected pulm tumor	32000	drainage of chest[1]
B	Chest tube insertion for spontaneous pneumothorax, in 20yo	32020	tube of thoracostomy with water seal
H	Left upper pulm lobectomy, for squamous bronchogenic ca	32480	lobectomy, total or segmental
M	Init pericardiocentesis, 35yo M post chest trauma	33010	pericardiocentesis, initial[1]
Std	Permanent single chamber cardiac pacemaker implantation, etc.	33207	insertion of heart pacemaker, ventricular
T	Primary aortic valve repl 50yo F, prosth valve, etc.	33405	replacement of aortic valve, with cardiopulm bypass
A	Redo CABGx3, 1st reop 68yo M, 3 yr post graft, etc.	33512	coronary arteries bypass, three coronary grafts
D	Primary CABGx3, 65yo M, etc., no complicating assoc disease	33512	coronary arteries bypass, three coronary grafts
P	Rep ventricular septal defect in 5yo child	33681	repair heart septum defect, direct
Q	Insertion, mgmt, & remov balloon pump, post CABG, etc.	33970	intra-aortic balloon, insertion only
I	Prosth graft repl 10 cm abd infrarenal aortic aneurysm, etc.	35081	repair defect of abdominal aorta
O	Carotid endarterectomy, unilat, 58yo F, hx ischemic attacks	35301	rechanneling of carotid artery
J	Mediastinoscopy in pt w suspected paratracheal lymph nodes	39400	mediastinoscopy, with or without biopsy
S	Tot esophagectomy w gastroesophageal anastomosis in chest	43110	esophagectomy, gastric anastomosis with vagotomy
K	Ext init off eval of 70yo F w increasing dysphagia	90020	office visit, new, comprehensive
N	Init off eval 50yo M w aortic aneurysm, to recommend surg	90020	office visit, new, comprehensive
U	Eval 65yo M,chronic stable angina and coronary artery disease	90020	office visit, new, comprehensive
C	Foll-up hosp visit, day 1 post-op chest tube insertion, etc.	90240	subsequent hospital visit, brief
E	Hosp visit, day 2 post-op, CABGx3, 65yo M, no assoc disease	90250	subsequent hospital visit, limited
F	Init hosp eval pulm tumor 45yo smoker, prev in good health	90620	comprehensive consultation

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Table 0.1 continued

Comparison of RBRV study service descriptions with CPT-4 numbers and CPT-4 service descriptions

Specialty/RBRV	Service description	CPT-4 number	CPT-4 Service description
Urology:			
T	Uncomplicated indirect inguinal hernia repair, 45yo M	49505	repair inguinal hernia, age 5 or over
L	Percutaneous nephrostolithotomy, 1 stage, 2 cm stone or less	50080	percutaneous removal kidney stone, up to 2 cm
M	Extracorporeal shock wave lithotripsy, etc., 2 cm renal stone	50590	lithotripsy, extracorporeal shock wave
A	Tot cystectomy and ileal loop, urinary diversion, etc.	51595	remove bladder, revise tract
P	Cystometrogram calibrated electronic equipment, etc.	51726	complex cystometrogram
Std	Diag cystoscopy hosp, ambulatory surg, M w microhematuria	52000	cystoscopy
I	Diag cystoscopy, off proc in M w microhematuria	52000	cystoscopy
K	Cystoscopic laser ther superficial bladder tumor, in hosp	52234	cystoscopy and treatment of tumor, 0.5 To 2.0 Cm
C	Fulguration and resection medium bladder tumor, 2-5 cm 65yo M	52235	cystoscopy and treatment of tumor, 2.0 To 5.0 Cm
Q	Cystourethroscopy w insertion of indwelling ureteral stent	52332	cystoscopy, insertion of indwelling ureteral stent
N	Ureteroscopy w remov of calculus	52336	cystoscopy, stone removal
H	Transurethral resection of prostate, TURP, etc., BPH 70yo M	52601	prostatectomy (tur)
E	Insertion non-inflatable, semi-rigid, penile prosth, 60yo M	54400	insertion penile prosthesis, non-inflatable
U	Bilat vasectomy, incl post-op semen examinations	55250	removal of sperm duct(s)
R	Semen analysis for infertility	89320	semen analysis, complete
G	Init off eval diagnosis & mgmt painless gross hematuria, etc.	90017	office visit, new, extended
J	Init eval and mgmt of recurrent renal calculi in 40yo M	90017	office visit, new, extended
O	Init eval and mgmt of recurrent urinary tract inf in F	90017	office visit, new, extended
S	Init eval and mgmt of unexplained renal failure in a 40yo F	90020	office visit, new, comprehensive
D	Off eval new onset right lower quad pain 32yo F, est pt	90070	office visit, established, extended
B	Foll-up hosp visit 2 days post uncomplicated TURP in 70yo M	90250	subsequent hospital visit, limited
F	Init consult for infertility in 35yo M	90610	extended consultation

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[1]CPT-4 code specifies only the intra-operative portion of this service and does not include any pre- or post-operative service to the patient.

Table 0.2

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]		/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
00142	an	M	anesthesia for lens surgery	54	77	147	278	1.00	278
00210	an	T	anesth, open head surgery	113	250	435	798	1.00	798
00350	an	P	anesth, major neck vessel surgery	86	150	340	576	1.00	576
00404	an	S	anesth, surgery of breast	67	114	176	358	1.00	358
00562	an	A	anesth, heart vessel repair with pump oxygena	118	271	615	1004	1.00	1004
00770	an	K	anesth, major abdominal blood vessel repair	125	323	509	957	1.00	957
00790	an	F	anesth, surgery of upper abdomen	61	95	201	358	1.00	358
00806	an	E	anesth, laparoscopic procedures	43	51	127	221	1.00	221
00830	an	Std	anesth, repair of hernia lower abdomen	51	74	96	220	1.00	220
00840	an	C	anesth, surgery of lower abdomen	91	150	256	497	1.00	497
00850	an	U	anesth, cesarean section	68	100	231	399	1.00	399
00910	an	B	anesth, transurethral procedures	27	28	73	128	1.00	128
00914	an	O	anesth, transurethral removal of prostate	57	83	173	312	1.00	312
00940	an	L	anesth, vaginal procedures	25	25	65	116	1.00	116
01210	an	J	anesth, hip joint surgery	81	134	232	447	1.00	447
01214	an	G	anesth, replacement of hip	100	197	292	589	1.00	589
01270	an	D	anesth, upper leg arteries surgery	103	207	299	609	1.00	609
01382	an	I	anesth, knee arthroscopy	55	79	105	239	1.00	239
01710	an	Q	anesth, upper arm surgery	49	65	101	215	1.00	215
01710	gs	C	anesth, upper arm surgery	38	50	79	167	0.00	215
11100	dm	L	biopsy of skin, one lesion	17	18	58	93	1.00	93
11401	dm	A	removal benign skin lsn, trunk, 0.6 To 1.0 Cm	30	33	101	164	1.00	164
11441	dm	U	removal benign skin lsn, face, 0.6 To 1.0 Cm	32	36	105	173	0.00	115
11441	mx	J	removal benign skin lsn, face, 0.6 To 1.0 Cm	22	21	73	115	1.00	115
11641	dm	N	removal malignant skin lsn, face, 0.6 To 1.0	38	41	155	234	1.00	234
11642	dm	M	removal malignant skin lsn, face, 1.1 To 2.0	29	30	108	167	1.00	167
11900[2]	dm	F	injection into skin lesions, less than 8 les	10	11	24	45	1.00	45
12002[2]	fp	C[3]	repair superficial wound(s), 2.6 To 7.5 Cm	22	25	75	121	0.76	121

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
12002[2]	pe P[3]	repair superficial wound(s), 2.6 To 7.5 Cm	22	25	75	121	0.24	121
15822-50	op I	revision of upper eyelid	128	294	443	865	1.00	865
17000[2]	dm B	destruction of face lesion, one lesion	14	15	41	70	1.00	70
17100[2]	dm O	destruction of skin lesion, one lesion	14	15	40	69	1.00	69
17999	dm I	skin tissue procedure, unlisted	25	29	65	119	1.00	119
19240	gs D	mastectomy, mod radical incl axillary lymph n	168	442	768	1379	1.00	1379
20550[2]	rh G	injection, tendon sheath	15	16	39	70	1.00	70
20610[2]	im C[3]	inject/drain joint/bursa	20	21	52	93	0.48	93
20610[2]	or R[3]	inject/drain joint/bursa	20	21	52	93	0.52	93
20610[2]	rh E[3]	inject/drain joint/bursa	20	21	52	93	0.00	93
21200	mx I	osteotomy, mandible, total or horizontal	338	631	1176	2145	1.00	2145
21240	mx W	arthroplasty, tmj, with or without autograft	247	134	1056	1437	1.00	1437
21250	mx A	osteoplasty of maxilla, lefort type operation	367	827	1974	3169	1.00	3169
21320	ot R	treatment of nose fracture with stabilization	77	85	155	317	1.00	317
21365	mx T	open repair cheek bone fracture	208	635	908	1752	1.00	1752
21455	mx P	closed repair lower jaw fracture	146	267	467	880	1.00	880
21470	mx Q	open repair lower jaw fracture	210	639	955	1804	1.00	1804
24640[2]	or M	treat radial head dislocation, child	15	20	73	108	0.00	64
24640[2]	pe M	treat radial head dislocation, child	13	14	37	64	1.00	64
25611	or G	repair fracture radius/ulna, percut pins and	124	70	501	695	1.00	695
27130	or A	total hip joint replacement	175	701	1486	2363	1.00	2363
27244	or F	open repair of femur fracture	158	671	881	1710	1.00	1710
28292	or C	correction of bunion, keller mcbride mayo pro	98	57	365	519	1.00	519
29881	or D	knee arthroscopy/surgery, meniscectomy	112	68	557	737	1.00	737
29909	mx U	arthroscopy of joint, unlisted procedure	198	105	615	918	1.00	918
30420	ot F	rhinoplasty, primary, with major septal repai	150	393	764	1307	1.00	1307
31032	mx O[3]	explore sinus,remove polyps, unilateral	125	237	350	713	0.05	713
31032	ot T[3]	explore sinus,remove polyps, unilateral	125	237	350	713	0.95	713

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
31365	ot A	removal of larynx, radical neck dissection	227	856	1643	2726	1.00	2726
31500	pe K	intubation, endotracheal, emergency procedure	14	99	92	205	1.00	205
31535	ot G	operative laryngoscopy, direct, with biopsy	86	149	212	448	1.00	448
31603	gs E[3]	tracheostomy, emergency, transtracheal	23	77	288	388	0.77	388
31603	ot M	tracheostomy, emergency, transtracheal	23	77	397	497	0.00	388
31603	ts R[3]	tracheostomy, emergency, transtracheal	23	77	288	388	0.23	388
31621	ot E[3]	bronchoscopy, diagnostic, flexible or rigid	104	121	199	424	0.25	424
31621	ts G[3]	bronchoscopy, diagnostic, flexible or rigid	104	121	199	424	0.75	424
32000[2]	ts L	drainage of chest	85	133	106	324	1.00	324
32020	gs B[3]	tube of thoracostomy with water seal	63	187	108	359	0.55	359
32020	ts B[3]	tube of thoracostomy with water seal	63	187	108	359	0.45	359
32480	ts H	lobectomy, total or segmental	196	906	1125	2227	1.00	2227
33010[2]	ts M	pericardiocentesis, initial	65	220	169	453	1.00	453
33207	ts Std	insertion of heart pacemaker, ventricular	117	242	284	643	1.00	643
33405	ts T	replacement of aortic valve, with cardiopulm	212	1024	1711	2947	1.00	2947
33512	ts A	redo coronary arteries bypass, three grafts	219	1219	2444	3883	0.00	2978
33512	ts D	coronary arteries bypass,2 three grafts	208	1056	1713	2978	1.00	2978
33681	ts P	repair heart septum defect, direct	226	777	1566	2569	1.00	2569
33970	ts Q	intra-aortic balloon, insertion only	136	331	550	1017	1.00	1017
35081	ts I	repair defect of abdominal aorta	211	998	1452	2662	1.00	2662
35301	ts O	rechanneling of carotid artery	172	441	906	1519	1.00	1519
39400	ts J	mediastinoscopy, with or without biopsy	120	204	344	667	1.00	667
42145	ot O	repair,palate,pharynx/uvula	126	280	416	821	1.00	821
42415	ot L	excise lat lobe parotid gland/lsn, preserv fa	153	400	1102	1655	1.00	1655
42820	gs F[3]	remove tonsils and adenoids, under age 12	80	118	171	369	0.16	369
42820	ot Std[3]	remove tonsils and adenoids, under age 12	80	118	171	369	0.84	369
43110	gs A[3]	esophagectomy, gastric anastomosis with vagot	221	1227	1776	3224	0.58	3224
43110	ts S[3]	esophagectomy, gastric anastomosis with vagot	221	1227	1776	3224	0.42	3224

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
44145	gs G	partial removal of colon, with coloproctostom	191	577	1174	1942	1.00	1942
44950	fp D	appendectomy	87	177	234	498	0.00	621
44950	gs H	appendectomy	121	173	326	621	1.00	621
45300	fp E[3]	proctosigmoidoscopy, diagnostic	21	23	74	117	0.16	117
45300	gs I	proctosigmoidoscopy, diagnostic	22	25	61	108	0.00	117
45300	im D[3]	proctosigmoidoscopy, diagnostic	21	23	74	117	0.84	117
45385	gs J	colonoscopy, lesion removal	115	64	339	518	1.00	518
46050[2]	fp F	incision of perianal abscess	27	31	77	135	1.00	135
47600	gs K	cholecystectomy	126	258	607	991	1.00	991
49505	gs Std	repair inguinal hernia, age 5 or over	81	132	263	476	1.00	476
49505	ur T	repair inguinal hernia, age 5 or over	131	286	470	886	0.00	476
50080	ur L	percutaneous removal kidney stone, up to 2 cm	187	510	1167	1864	1.00	1864
50590	ur M	lithotripsy, extracorporeal shock wave	188	162	910	1261	1.00	1261
51595	ur A	remove bladder, revise tract	258	1037	2426	3722	1.00	3722
51726	ur P	complex cystometrogram	34	38	115	187	1.00	187
52000	ur Std	cystoscopy	88	119	92	300	0.50	225
52000	ur I	cystoscopy	27	28	95	150	0.50	225
52234	ur K	cystoscopy and treatment of tumor, 0.5 To 2.0	129	258	435	822	1.00	822
52235	ur C	cystoscopy and treatment of tumor, 2.0 To 5.0	136	280	519	936	1.00	936
52332	ur Q	cystoscopy, insertion of indwelling ureteral	87	160	226	473	1.00	473
52336	ur N	cystoscopy, stone removal	156	379	835	1370	1.00	1370
52601	ur H	prostatectomy (tur)	155	314	919	1388	1.00	1388
54400	ur E	insertion penile prosthesis, non-inflatable	147	345	692	1184	1.00	1184
55250	ur U	removal of sperm duct(s)	124	81	253	458	1.00	458
57454[2]	ob N	vagina examination & biopsy	34	37	120	190	1.00	190
58120	ob Std	dilation and curettage	83	116	101	299	1.00	299
58150	fp G	total hysterectomy	120	284	366	769	0.00	983
58150	gs L	total hysterectomy	151	294	669	1114	0.16	983

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
58150	ob J	total hysterectomy	124	330	504	958	0.84	983
58265	ob V	vaginal hysterectomy & vagina repair	135	340	545	1020	1.00	1020
58925	ob I	removal of ovarian cyst(s)	115	242	307	664	1.00	664
58982	ob O	laparoscopy, tubal cautery	102	84	224	409	1.00	409
59000[2]	ob S	amniocentesis	101	95	124	320	1.00	320
59025-26	ob T	fetal non-stress test	0	0	41	41	1.00	41
59410	fp H	vaginal delivery only, incl in-hosp postpartu	14	140	251	405	0.11	370
59410	ob M	vaginal delivery only, incl in-hosp postpartu	11	114	241	366	0.89	370
59500	ob Q	cesarean section, incl in-hosp postpartum car	121	258	367	747	1.00	747
59840	ob W	abortion	91	98	152	341	1.00	341
61526	ot Q	removal of brain lsn, cerebellopontine angle	240	951	1965	3156	1.00	3156
62270[2]	pe N	spinal fluid tap, diagnostic	25	27	78	130	1.00	130
62278[2]	an R	inject spinal anesth, epidural or caudal, si	38	41	126	205	1.00	205
63017	or T	removal of spinal lamina, lumbar	189	592	1435	2216	1.00	2216
63030	or E	low back disk surgery, unilateral	169	465	1074	1709	1.00	1709
64721	gs M[3]	revise median nerve at wrist	98	56	193	347	0.15	347
64721	or Std[3]	revise median nerve at wrist	98	56	193	347	0.85	347
65740	op A	corneal transplant, fresh	210	651	1220	2082	1.00	2082
65850	op L	incision of eye	172	173	680	1024	1.00	1024
66984	op J	remove cataract, insert lens	195	539	846	1580	1.00	1580
66985	op E	insert lens prosthesis after cataract removal	165	344	597	1107	1.00	1107
66999	op T	unlisted procedure, anterior segment of eye	136	270	512	918	1.00	918
67107	op M	repair detached retina, scleral buckling	199	602	1028	1828	1.00	1828
67228	op N	treatment of retinal lesion, photocoagulation	78	79	532	689	1.00	689
67312	op K	strabismus surgery, two muscles, one or both	136	298	532	966	1.00	966
67800	op Std	excision of chalazion, single	50	30	48	127	1.00	127
67840[2]	gs N	remove eyelid lesion	89	69	141	299	0.00	536
67840[2]	op U	remove eyelid lesion	133	87	317	536	1.00	536

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
69200	ot U	clear outer ear canal, without general anesth	18	19	64	100	1.00	100
69200	pe U	clear outer ear canal, without general anesth	16	18	45	79	0.00	100
69437	ot D	tympanostomy, general anesthesia, bilateral	82	100	104	287	1.00	287
69641	ot H	revise mid ear & mastoid, w/o ossicular chain	198	679	1070	1947	1.00	1947
69930	ot P	implant cochlear device	205	690	1176	2071	1.00	2071
70260-26	ra O	x-ray exam of skull, minimum four views	3	6	24	32	1.00	32
70330	mx S	x-ray exam of jaw joints	0	0	74	74	1.00	74
70355-26	mx R	panoramic x-ray of jaws	0	0	26	26	1.00	26
71020-26	ra B	x-ray exam of chest, two views	2	4	18	24	1.00	24
71111-26	ra C	x-ray exam of ribs, chest, minimum four views	3	6	24	33	1.00	33
72110-26	or L	x-ray exam of lower spine, compl, with obliqu	0	0	36	36	0.00	36
72110-26	ra Q	x-ray exam of lower spine, compl, with obliqu	4	6	27	36	1.00	36
72140	ra K	magnetic resonance imaging, spinal cord and s	23	47	159	228	1.00	228
72266	or S[3]	myelography, lower spine, complete procedure	32	65	177	275	0.05	275
72266	ra S[3]	myelography, lower spine, complete procedure	32	65	177	275	0.95	275
73080-26	or P	x-ray exam of elbow, complete, minimum three	0	0	29	29	1.00	29
73110-26	or O	x-ray exam of wrist, complete, minimum three	0	0	42	42	1.00	42
73120-26	rh B	x-ray exam of hand, two views	0	0	21	21	1.00	21
73510-26	or U	x-ray exam of hip, complete, minimum two view	0	0	34	34	0.00	28
73510-26	ra T[3]	x-ray exam of hip, complete, minimum two view	3	5	21	28	1.00	28
73510-26	rh Q[3]	x-ray exam of hip, complete, minimum two view	0	0	21	21	0.00	28
73610-26	ra I	x-ray exam of ankle, complete, minimum three	2	4	14	20	1.00	20
73630-26	or Q	x-ray exam of foot, complete, minimum three v	0	0	30	30	1.00	30
74020-26	ra L	x-ray abdomen, compl, incl decubitus and/or e	3	6	26	35	1.00	35
74160-26	ra F	contrast cat scan of abdomen	13	14	107	133	1.00	133
74247	ra Std	contrast xray upper gi tract, with kub	13	16	59	89	1.00	89
74280	ra D	contrast x-ray exam of colon	15	29	90	134	1.00	134
74400	ra M	contrast x-ray urinary tract	10	19	68	97	1.00	97

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
74741	ra R	x-ray female genital tract, complete	15	29	91	135	1.00	135
75657	ra A	artery x-rays, head & neck, 3 or 4 vessels, c	73	155	463	691	1.00	691
75821	ra N	vein x-ray, arm/leg, unilateral, complete	24	24	107	155	1.00	155
76091-26	ra J	x-ray exam of breasts	5	11	50	66	1.00	66
76361	ra H	cat scan for needle biopsy, complete	30	61	208	299	1.00	299
76512	op H	echo exam of eye, b-scan	0	0	97	97	1.00	97
76516	op G	echo biometry of eye, a-mode	0	0	70	70	1.00	70
76700	ra E	echo exam of abdomen, b-scan, complete	15	31	100	147	1.00	147
76805	ob R	echo exam of pregnant uterus, b-scan, complet	0	0	152	152	0.00	166
76805	ra G	echo exam of pregnant uterus, b-scan, complet	16	33	117	166	1.00	166
77400	dm Q	daily radiation therapy, simple	17	18	53	88	1.00	88
77763	ob Y	radioelement application, complex	83	150	186	419	1.00	419
78351-26	ra P[3]	bone mineral content study, dual photon	4	7	30	41	1.00	41
78351-26	rh L[3]	bone mineral content study, dual photon	0	0	30	30	0.00	41
80500	ai Q[3]	lab path consult, limited, w/o hist/med recor	0	0	28	28	0.00	39
80500	pa F[3]	lab path consult, limited, w/o hist/med recor	0	0	28	40	0.33	39
80500	pa P	lab path consult, limited, w/o hist/med recor	0	0	26	38	0.33	39
80500	pa R	lab path consult, limited, w/o hist/med recor	0	0	26	39	0.33	39
80502	pa K	lab path consult, compreh, history/med record	0	0	88	119	1.00	119
81000	fp I	urinalysis with microscopy	0	0	15	15	0.27	16
81000	im E	urinalysis with microscopy	0	0	15	15	0.54	16
81000	pe Q	urinalysis with microscopy	0	0	18	18	0.19	16
85060	pa H	blood smear interpretation	0	0	31	44	1.00	44
85595-26	rh R	electronic platelet count	0	0	10	10	1.00	10
85651-26	rh P	rbc sedimentation rate, westergren type	0	0	12	12	1.00	12
86078	pa N	physician blood bank service, invest transf r	0	0	74	98	1.00	98
86455	ai M	skin test, anergy testing, one or more antige	18	29	63	111	1.00	111
87207	dm D	smear, stain & interpret, inclusion bodies/pa	0	0	33	33	1.00	33

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
87220	dm H[3]	tissue exam for fungi	0	0	23	23	0.81	23
87220	fp J[3]	tissue exam for fungi	0	0	23	23	0.19	23
88104	pa G	cytopathology, smears with interpretation	0	0	59	76	1.00	76
88173	pa J	fine needle aspirate, interpretation and repo	0	0	95	127	1.00	127
88302	pa B	surgical pathology, complete, normal tissue	0	0	9	12	1.00	12
88304	pa Std	surgical pathology, complete, abnormal tissue	0	0	18	25	1.00	25
88305	dm S	surg path, single compl/multip uncomp, compl	0	0	66	66	0.00	105
88305	pa I	surg path, single compl/multip uncomp, compl	0	0	94	128	0.25	105
88305	pa L	surg path, single compl/multip uncomp, compl	0	0	66	90	0.25	105
88305	pa O	surg path, single compl/multip uncomp, compl	0	0	90	126	0.25	105
88305	pa Q	surg path, single compl/multip uncomp, compl	0	0	51	75	0.25	105
88307	pa M	surg path, single or multiple compl, compl dxn	0	0	94	128	1.00	128
88309	pa A	surg path, complete, complex diagnostic probl	0	0	195	265	1.00	265
88312	pa E	special stains, each	0	0	53	65	1.00	65
88331	pa C	consult during surg, frozen section(s), singl	0	0	97	149	1.00	149
89051	rh F	body fluid cell count with differential	0	0	42	42	1.00	42
89320	ur R	semen analysis, complete	0	0	44	44	1.00	44
90015	mx B	office visit, new, intermediate	10	14	26	50	0.50	66
90015	mx L	office visit, new, intermediate	9	23	50	82	0.50	66
90017	dm C	office visit, new, extended	12	22	66	100	0.33	90
90017	dm E	office visit, new, extended	10	20	59	89	0.33	90
90017	dm J	office visit, new, extended	6	14	62	82	0.33	90
90017	im F	office visit, new, extended	5	33	99	137	0.50	126
90017	im S[3]	office visit, new, extended	9	26	80	116	0.50	126
90017	ob A	office visit, new, extended	13	27	112	152	0.50	144
90017	ob U	office visit, new, extended	16	31	89	136	0.50	144
90017	or N	office visit, new, extended	7	23	69	99	1.00	99
90017	ot C	office visit, new, extended	14	27	72	113	0.50	114

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]		/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
90017	ot	N	office visit, new, extended	13	26	77	116	0.50	114
90017	ur	G	office visit, new, extended	16	30	89	135	0.33	139
90017	ur	J	office visit, new, extended	18	36	112	166	0.33	139
90017	ur	O[3]	office visit, new, extended	9	26	80	116	0.33	139
90020	ai	F	office visit, new, comprehensive	22	65	152	238	0.33	244
90020	ai	L	office visit, new, comprehensive	24	69	162	256	0.33	244
90020	ai	N	office visit, new, comprehensive	22	59	158	239	0.33	244
90020	dm	R	office visit, new, comprehensive	13	26	75	114	0.50	118
90020	dm	T	office visit, new, comprehensive	12	23	87	121	0.50	118
90020	fp	K[3]	office visit, new, comprehensive	21	42	122	185	1.00	185
90020	gs	O	office visit, new, comprehensive	54	96	124	274	0.50	218
90020	gs	P[3]	office visit, new, comprehensive	19	44	99	162	0.50	218
90020	mx	K	office visit, new, comprehensive	32	70	134	235	1.00	235
90020	ob	C[3]	office visit, new, comprehensive	21	42	122	185	0.50	209
90020	ob	X	office visit, new, comprehensive	29	58	146	233	0.50	209
90020	or	H	office visit, new, comprehensive	11	32	103	146	0.50	154
90020	or	I[3]	office visit, new, comprehensive	19	44	99	162	0.50	154
90020	ot	I	office visit, new, comprehensive	16	32	97	145	0.50	145
90020	ot	S	office visit, new, comprehensive	17	33	93	144	0.50	145
90020	pe	H	office visit, new, comprehensive	16	32	91	139	0.33	142
90020	pe	L	office visit, new, comprehensive	19	38	113	170	0.33	142
90020	pe	S	office visit, new, comprehensive	14	27	76	117	0.33	142
90020	rh	A	office visit, new, comprehensive	49	100	263	413	0.20	302
90020	rh	C	office visit, new, comprehensive	35	69	163	267	0.20	302
90020	rh	H	office visit, new, comprehensive	22	41	149	212	0.20	302
90020	rh	K	office visit, new, comprehensive	41	72	250	363	0.20	302
90020	rh	O	office visit, new, comprehensive	34	67	153	255	0.20	302
90020	ts	K	office visit, new, comprehensive	45	61	131	237	0.33	220

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]		/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
90020	ts	N	office visit, new, comprehensive	34	50	113	197	0.33	220
90020	ts	U	office visit, new, comprehensive	49	52	127	228	0.33	220
90020	ur	S	office visit, new, comprehensive	34	56	141	231	1.00	231
90040	pe	B	office visit, established, brief	3	5	16	24	1.00	24
90050	ai	Std	office visit, established, limited	8	12	40	60	1.00	60
90050	dm	Std	office visit, established, limited	5	9	29	42	0.50	40
90050	dm	G[3]	office visit, established, limited	4	6	27	38	0.50	40
90050	fp	Std[3]	office visit, established, limited	6	13	44	62	0.25	48
90050	fp	B[3]	office visit, established, limited	4	6	27	38	0.25	48
90050	fp	L	office visit, established, limited	4	8	39	51	0.25	48
90050	fp	M[3]	office visit, established, limited	3	7	32	43	0.25	48
90050	gs	Q	office visit, established, limited	7	10	37	54	1.00	54
90050	im	Std[3]	office visit, established, limited	6	13	44	62	0.33	51
90050	im	B[3]	office visit, established, limited	3	9	37	49	0.33	51
90050	im	H[3]	office visit, established, limited	3	7	32	43	0.33	51
90050	ob	B	office visit, established, limited	8	10	38	56	0.50	63
90050	ob	P	office visit, established, limited	7	14	50	71	0.50	63
90050	op	S	office visit, established, limited	5	9	31	45	1.00	45
90050	ot	B[3]	office visit, established, limited	3	9	37	49	1.00	49
90050	pe	Std	office visit, established, limited	5	9	29	42	0.50	42
90050	pe	R[3]	office visit, established, limited	3	7	32	43	0.50	42
90050	rh	Std	office visit, established, limited	7	14	47	68	0.50	68
90050	rh	N	office visit, established, limited	6	14	49	69	0.50	68
90060	ai	B	office visit, established, intermediate	6	13	47	66	1.00	66
90060	fp	N[3]	office visit, established, intermediate	11	21	59	91	0.50	85
90060	fp	O[3]	office visit, established, intermediate	8	15	57	80	0.50	85
90060	gs	R	office visit, established, intermediate	7	13	44	64	1.00	64
90060	im	I[3]	office visit, established, intermediate	8	15	57	80	1.00	80

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
90060	ob D	office visit, established, intermediate	11	23	73	107	0.50	99
90060	ob K[3]	office visit, established, intermediate	11	21	59	91	0.50	99
90060	or K	office visit, established, intermediate	9	24	54	87	1.00	87
90060	pe I	office visit, established, intermediate	12	23	70	105	1.00	105
90060	rh I	office visit, established, intermediate	12	24	72	107	1.00	107
90070	ai O	office visit, established, extended	15	23	86	123	1.00	123
90070	fp P[3]	office visit, established, extended	10	36	92	138	0.50	134
90070	fp Q[3]	office visit, established, extended	11	32	88	131	0.50	134
90070	gs S[3]	office visit, established, extended	10	36	92	138	1.00	138
90070	im J[3]	office visit, established, extended	10	36	92	138	0.50	134
90070	im L[3]	office visit, established, extended	11	32	88	131	0.50	134
90070	ob L[3]	office visit, established, extended	10	36	92	138	0.50	149
90070	ob Z	office visit, established, extended	17	35	109	161	0.50	149
90070	pe O	office visit, established, extended	16	31	86	133	1.00	133
90070	rh J	office visit, established, extended	16	33	99	148	1.00	148
90070	ur D	office visit, established, extended	14	27	80	121	1.00	121
90080	im K	office visit, established, comprehensive	26	52	126	204	1.00	204
90220	ai E	hospital care, new, comprehensive	38	82	199	318	0.50	323
90220	ai R	hospital care, new, comprehensive	33	88	205	327	0.50	323
90220	fp A	hospital care, new, comprehensive	34	62	151	247	1.00	247
90220	gs T	hospital care, new, comprehensive	22	54	107	183	1.00	183
90220	im M	hospital care, new, comprehensive	17	60	154	231	1.00	231
90220	pe G	hospital care, new, comprehensive	19	47	126	191	1.00	191
90240	ts C	subsequent hospital visit, brief	16	17	36	68	1.00	68
90250	gs U	subsequent hospital visit, limited	8	9	35	52	1.00	52
90250	or B	subsequent hospital visit, limited	10	13	48	71	1.00	71
90250	py F	subsequent hospital visit, limited	15	22	58	94	1.00	94
90250	ts E	subsequent hospital visit, limited	20	22	77	120	1.00	120

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
90250	ur B	subsequent hospital visit, limited	10	9	35	54	1.00	54
90260	im N	subsequent hospital visit, intermediate	15	20	60	95	0.50	99
90260	im O	subsequent hospital visit, intermediate	14	19	70	104	0.50	99
90350	fp R[3]	care facility subsequent visit, limited	10	14	50	74	1.00	74
90350	im P[3]	care facility subsequent visit, limited	10	14	50	74	1.00	74
90370	fp S	care facility subsequent visit, extended	21	37	100	159	1.00	159
90370	im Q	care facility subsequent visit, extended	27	48	118	192	1.00	192
90520	py A	emergency care, new, comprhensive	53	111	300	465	0.50	391
90520	py L	emergency care, new, comprhensive	39	81	197	317	0.50	391
90570	fp T	emergency care, established, extended	35	73	174	282	1.00	282
90570	im A	emergency care, established, extended	35	107	230	372	1.00	372
90610	im R	extended consultation	44	66	146	256	1.00	256
90610	ur F	extended consultation	18	36	106	159	1.00	159
90620	an V	comprehensive consultation	22	42	111	175	1.00	175
90620	dm P	comprehensive consultation	20	36	98	154	1.00	154
90620	fp U	comprehensive consultation	27	53	132	212	1.00	212
90620	py D	comprehensive consultation	33	76	172	282	0.33	302
90620	py N	comprehensive consultation	66	88	181	335	0.33	302
90620	py W	comprehensive consultation	34	78	178	290	0.33	302
90620	ts F	comprehensive consultation	50	46	122	218	1.00	218
90630	an N	complex consultation	35	73	167	274	1.00	274
90630	fp V[3]	complex consultation	43	80	159	282	1.00	282
90630	gs V	complex consultation	43	118	279	440	0.50	361
90630	gs W[3]	complex consultation	43	80	159	282	0.50	361
90630	im G	complex consultation	28	80	187	295	1.00	295
90630	op D	complex consultation	24	44	108	176	1.00	176
90630	or J	complex consultation	95	64	290	448	1.00	448
90630	py Q	complex consultation	83	165	378	626	0.50	551

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
90630	py V	complex consultation	65	127	283	475	0.50	551
90630	rh D	complex consultation	42	83	211	336	1.00	336
90642	rh M	intermediate followup consult	13	26	76	115	1.00	115
90750	im T	preventive medicine, new, adult	16	29	72	117	1.00	117
90751	pe F	preventive medicine, new, 12-17	15	28	78	121	1.00	121
90752	pe E	preventive medicine, new, 5-11	15	19	68	101	1.00	101
90763	pe D	preventive medicine, established, 1-4	10	20	54	85	1.00	85
90764	fp W[3]	preventive medicine, established, infant	5	9	50	64	1.00	64
90764	pe C[3]	preventive medicine, established, infant	5	9	50	64	1.00	64
90801	py M	psychiatric diagnostic interview	64	90	183	337	0.50	259
90801	py S	psychiatric diagnostic interview	14	23	144	181	0.50	259
90825	py E	psychiatric evaluation of tests/records	30	58	135	223	1.00	223
90831	py B	psychiatric telephone consultation	0	18	56	75	1.00	75
90844	py Std	individual psychotherapy, 45 to 50 minutes	12	19	103	133	0.20	139
90844	py C	individual psychotherapy, 45 to 50 minutes	12	19	102	133	0.20	139
90844	py G	individual psychotherapy, 45 to 50 minutes	12	19	114	145	0.20	139
90844	py H	individual psychotherapy, 45 to 50 minutes	12	19	100	130	0.20	139
90844	py U	individual psychotherapy, 45 to 50 minutes	12	19	125	156	0.20	139
90847	py I	special family psychotherapy	14	23	149	186	0.50	254
90847	py T	special family psychotherapy	42	84	197	322	0.50	254
90849	py J	special multiple-family group psychotherapy	33	87	191	312	1.00	312
90853	py K	special group psychotherapy	12	19	160	190	1.00	190
90862	py O	psychiatric chemotherapy management	12	19	73	103	1.00	103
90870	py P	electroconvulsive therapy, single siezure	14	18	108	141	1.00	141
90889	py X	preparation of patient psychiatric status rep	32	62	135	229	1.00	229
90899	py R	unlisted psychiatric service/therapy	14	23	152	190	1.00	190
92004	op C	new eye exam & treatment, comprehensive	13	25	61	99	1.00	99
92004	op O	new eye exam & treatment, comprehensive	25	46	116	186	0.00	99

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Table 0.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
92012	op B	eye exam & treatment, established, intermedia	6	11	36	53	1.00	53
92082-26	op F	visual field examination(s), intermediate	0	0	41	41	1.00	41
92235	op Q	ophthalmoscopy/fluorescein angiography	34	39	101	174	1.00	174
92250-26	op P	ophthalmoscopy, fundus photography	0	0	37	37	1.00	37
92286	op R	internal eye photography, cell count	0	0	54	54	1.00	54
92511	ai I	nasopharyngoscopy	39	40	100	178	1.00	178
92541-26	ot K	spontaneous nystagmus test	0	0	47	47	1.00	47
92557-26	ot J	comprehensive audiometry	0	0	31	31	1.00	31
93000	im U	electrocardiogram, complete, minimum 12 leads	0	0	28	28	1.00	28
93503	an H[3]	right heart catheterization, flow directed ca	41	65	139	244	0.83	244
93503	gs X[3]	right heart catheterization, flow directed ca	41	65	139	244	0.17	244
94010-26	ai H	breathing capacity test	0	0	37	37	1.00	37
95000	ai C	allergy skin tests, 1-30	21	37	77	135	1.00	135
95017	ai A	sensitivity skin tests, 11-15	48	59	151	259	1.00	259
95020	ai D	allergy skin tests, 1-10	19	26	76	121	1.00	121
95070	ai J	bronchial allergy tests	45	44	156	244	1.00	244
95135	ai G	supervision/provision antigens for immunother	12	10	19	41	1.00	41
95150	ai K	antigen therapy services	12	23	72	108	1.00	108
96912	dm K	photochemotherapy with uv-a	14	16	32	62	1.00	62
99013	pe T	phone consult, simple or brief	0	4	17	21	1.00	21
99014	im V	phone consult, intermediate	0	6	28	34	1.00	34
99014	pe J	phone consult, intermediate	0	8	31	39	1.00	39
99015	fp X	phone consult, lengthy or complex	0	10	49	59	1.00	59
99015	im W	phone consult, lengthy or complex	0	14	66	80	1.00	80
99152	pe A	newborn resuscitation	14	104	167	285	1.00	285
99155	fp Y[3]	conference with physician, approx 25 minutes	6	12	43	61	1.00	61
99155	im X[3]	conference with physician, approx 25 minutes	6	12	43	61	1.00	61
99156	ai P	conference with physician, approx 50 minutes	19	22	104	145	1.00	145

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Table O.2 continued

Mean survey estimates of cross-specialty work, work weight factors for duplicate cpt-4 codes, and resource-based relative values for all services under study

CPT-4 Number	Specialty[1]	/Service description	Cross-specialty work: Pre-service	Post-service	Intra-service	Total-service	Weight factor	Weighted total work
99160	gs Y	critical care, each hour	40	128	340	509	1.00	509
?????	ob E	norm uncomp labr, multip, etc, time w pt	15	3	232	250	1.00	250
?????	ob F	labor, mod hypertnsn, etc, time w pt	26	34	363	423	1.00	423
?????	ob G	pretrm labr etc req tocolysis, time w pt	114	288	324	727	1.00	727
?????	ob H	prot labor, pitocin etc, time w pt	32	34	439	506	1.00	506
D5974	mx V	placement of 4 maxillary endosseous implants	201	100	639	940	1.00	940
D7110	mx G	extr 10 erupted mand tth, 60yo on Pers	80	167	213	460	0.00	81
D7110	mx H	extr absc tth in a healthy 40yo	16	14	51	81	1.00	81
D7240	mx C	rmvl 4 imp (full bony) w/t, off proc	34	26	287	348	1.00	348
D7240	mx D	rmvl 4 imp (full bony) w/t, hosp proc	119	183	342	644	1.00	644
D7281	mx Std	exp 1 imp cuspid off 14yo, fut ortho tx	33	26	89	148	1.00	148
D9220	mx E	gen anes 14yo exp 1X imp cusp, office	33	51	125	209	0.25	187
D9220	mx F	gen anes extr absod tth healthy 40yo	30	23	93	146	0.25	187
D9220	mx M	gen anes in off extr 4 w/t hlthy 18yo	33	28	147	209	0.25	187
D9220	mx N	gen anes extr fxd tooth in 4yo child	22	35	130	187	0.25	187

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

1 Specialty designator definitions: ai allergy/immunology, an anesthesiology, dm dermatology, fp family practice, gs general surgery, im internal medicine, mx oral/maxillofacial surgery, ob obstetrics/gynecology, op ophthalmology, or orthopedic surgery, ot otolaryngology, py psychiatry, ra radiology, rh rheumatology, ts thoracic/cardiovascular surgery, ur urology.

2 CPT-4 code specifies only the operative procedure itself; pre- and post-operative services not normally included when reporting a service using this code.

3 Services are one of a group of "same" cross-specialty links designated as such by Technical Consulting Group members from the respective specialty. This service and other services in its "same" group are presented in Appendix O Table O.3.

Table 0.3

Surveyed, composite, and total work values for cross-specialty same link services

CPT-4 number and specialty[1]		Service description	Unadjusted cross-specialty intra-service work	Weight	Composite cross-specialty work			
					Intra-service	Pre-service	Post-service	Total-service
12002								
fp	C	Repair of 2 in laceration scalp, 14 yo	79	0.76	75	22	25	121
pe	P	Repair of 2 in laceration scalp, 14 yo	62	0.24	75	22	25	121
20610								
im	C	Aspiration of synovial fluid from knee	59	0.48	52	20	21	93
or	R	Aspiration of synovial fluid from knee	45	0.52	52	20	21	93
rh	E	Aspiration of synovial fluid from knee	47	0.00	52	20	21	93
31032								
mx	O	Unilateral Caldwell-luc procedure	332	0.05	350	125	237	713
ot	T	Unilateral Caldwell-luc procedure	351	0.95	350	125	237	713
31603								
gs	E	Tracheostomy,emergency procedure,adult	275	0.77	288	23	77	388
ts	R	Tracheostomy,emergency procedure,adult	331	0.23	288	23	77	388
31621								
ot	E	Primary diagnostic fiberoptc bronchoscopy	204	0.25	199	104	121	424
ts	G	Primary diagnostic fiberoptc bronchoscopy	198	0.75	199	104	121	424
32020								
gs	B	Chest tube insert spont pneumothorax,20yo	102	0.55	108	63	187	359
ts	B	Chest tube insert spont pneumothorax,20yo	116	0.45	108	63	187	359
42820								
gs	F	Tonsillectomy & adenoidectomy,10 yo child	179	0.16	171	80	118	369
ot	*	Tonsillectomy & adenoidectomy,10 yo child	169	0.84	171	80	118	369

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Table 0.3 continued

Surveyed, composite, and total work values for cross-specialty same link services

CPT-4 number and specialty[1]		Service description	Unadjusted cross-specialty intra-service work	Weight	Composite cross-specialty work			
					Intra-service	Pre-service	Post-service	Total-service
43110								
gs	A	Tot esophagectomy,gastroesoph anastmosis	1803	0.58	1776	221	1227	3224
ts	S	Tot esophagectomy,gastroesoph anastmosis	1739	0.42	1776	221	1227	3224
45300								
fp	E	Rigid sigmoidoscopy, without bx,in office	80	0.16	74	21	23	117
im	D	Rigid sigmoidoscopy, without bx,in office	72	0.84	74	21	23	117
64721								
gs	M	Decompression carpal tunnel 48yo,amb surg	206	0.15	193	98	56	347
or	*	Decompression carpal tunnel 48yo,amb surg	190	0.85	193	98	56	347
72266								
or	S	Perf and interp lumbar myelogram, 68 yo f	158	0.05	177	32	65	275
ra	S	Perf and interp lumbar myelogram, 68 yo f	178	0.95	177	32	65	275
73510-26								
ra	T	Interp of hip x-rays, complete	21	1.00	21	3	5	28
rh	Q	Interp of hip x-rays, complete	22	0.00	21	0	0	21
78351-26								
ra	P	Interp of bone density study	30	1.00	30	4	7	41
rh	L	Interp of bone density study	30	0.00	30	0	0	30
80500								
ai	Q	Interp of serum immunoelectrophoresis	26	0.00	28	0	0	28
pa	F	Interp of serum immunoelectrophoresis	28	0.33	28	0	0	40

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.3 continued

Surveyed, composite, and total work values for cross-specialty same link services

CPT-4 number and specialty[1]		Service description	Unadjusted cross-specialty intra-service work	Weight	Composite cross-specialty work: Intra-service	Pre-service	Post-service	Total-service
87220								
dm	H	Obt spec for KOH slide & interp of test	24	0.81	23	0	0	23
fp	J	Obt spec for KOH slide & interp of test	20	0.19	23	0	0	23
90017								
im	S	Init eval & mngt of recurrent UTI, female	68	1.00	80	9	26	116
ur	O	Init eval & mngt of recurrent UTI, female	92	1.00	80	9	26	116
90020								
gs	P	Comp OV init eval recurrent low back pain	92	1.00	99	19	44	162
or	I	Comp OV init eval recurrent low back pain	107	1.00	99	19	44	162
90020								
fp	K	Init visit 25 yo primigrav, hst/phys etc	126	1.00	122	21	42	185
ob	C	Init visit 25 yo primigrav, hst/phys etc	117	1.00	122	21	42	185
90050								
fp	*	Fol-up vis 55yo male mngt HBP,beta/thiaz	44	1.00	44	6	13	62
im	*	Fol-up vis 55yo male mngt HBP,beta/thiaz	44	1.00	44	6	13	62
90050								
dm	G	Off revisit, eval 28yo male,onychomycosis	29	1.00	27	4	6	38
fp	B	Off revisit, eval 28yo male,onychomycosis	26	1.00	27	4	6	38
90050								
fp	M	Off eval, ? purulent conjnctivtis,16yo f	33	1.00	32	3	7	43
im	H	Off eval ? prulnt bact conjnctvts, 16 yo	35	1.00	32	3	7	43
pe	R	Off eval, ? purulent conjnctivtis,16yo f	29	1.00	32	3	7	43

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Table 0.3 continued

Surveyed, composite, and total work values for cross-specialty same link services

CPT-4 number and specialty[1]		Service description	Unadjusted cross-specialty intra-service work	Weight	Composite cross-specialty work: Intra-service	Pre-service	Post-service	Total-service
90050								
im	B	OV,sore throat,fever,fatigue,19 yo,est pt	35	1.00	37	3	9	49
ot	B	OV,sore throat,fever,fatigue,19 yo,est pt	39	1.00	37	3	9	49
90060								
fp	N	Routine gyn exam,24yo est pt w/o complnts	57	1.00	59	11	21	91
ob	K	Routine gyn exam,24yo est pt w/o complnts	60	1.00	59	11	21	91
90060								
fp	O	OV 45yo, est pt, chronic asthma, etc	59	1.00	57	8	15	80
im	I	OV 45yo, est pt, chronic asthma, etc	55	1.00	57	8	15	80
90070								
fp	P	Off eval of new onset pain in 32 yo woman	94	1.00	92	10	36	138
gs	S	Off eval of new onset pain in 32 yo woman	81	1.00	92	10	36	138
im	J	Off eval of new onset pain in 32 yo woman	89	1.00	92	10	36	138
ob	L	Off eval of new onset pain in 32 yo woman	104	1.00	92	10	36	138
90070								
fp	Q	Off eval 28yo, enteritis, diar, est pt	81	1.00	88	11	32	131
im	L	Off eval 28yo, enteritis, diar, est pt	95	1.00	88	11	32	131
90350								
fp	R	Sched monthly nursing home visit,pt w OBS	51	1.00	50	10	14	74
im	P	Sched monthly nursing home visit,pt w OBS	48	1.00	50	10	14	74
90630								
fp	V	Emerg hosp consult, 72yo, ? bowel obstr	160	1.00	159	43	80	282
gs	W	Emerg hosp consult, 72yo, ? bowel obstr	158	1.00	159	43	80	282

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table 0.3 continued

Surveyed, composite, and total work values for cross-specialty same link services

CPT-4 number and specialty[1]		Service description	Unadjusted cross-specialty intra-service work	Weight	Composite cross-specialty work: Intra-service	Pre-service	Post-service	Total-service
90764								
fp	W	Comp well child visit at 6 months,est pt	51	1.00	50	5	9	64
pe	C	Comp well child visit at 6 months,est pt	49	1.00	50	5	9	64
93503								
an	H	Insertion of Swan-Ganz catheter	136	0.83	139	41	65	244
gs	X	Insertion of Swan-Ganz catheter	152	0.17	139	41	65	244
99155								
fp	Y	Suprvis conf w nurse, antibio tx for SBE	40	1.00	43	6	12	61
im	X	Suprvis conf w nurse, antibio tx for SBE	45	1.00	43	6	12	61

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[1]Specialty designator definitions: ai allergy/immunology, an anesthesiology, dm dermatology, fp family practice, gs general surgery, im internal medicine, mx oral/maxillofacial surgery, ob obstetrics/gynecology, op ophthalmology, or orthopedic surgery, ot otolaryngology, ra radiology, rh rheumatology, ts thoracic/cardiovascular surgery, ur urology.

Appendix P

Methods used to produce total work values for CPT-4 codes applicable to unused linking services

Appendix P

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Methods used to produce total work values for CPT-4 codes . . . 1
applicable to unused linking services

Appendix P

Methods used to produce total work values for CPT-4 codes applicable to unused linking services

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01710 - Regional intravenous anesthesia for upper extremity operation (surveyed specialties: anesthesia, general surgery)

The value for General Surgery was dropped due to the fact that this service is seldom performed by general surgeons. This service was included in General Surgery in an effort to get more cross-specialty links, but ultimately this link was rejected.

24640 - Closed reduction of a subluxation of the head of the radius at the elbow in a 4 year old male, office setting (surveyed specialties: orthopedic surgery, pediatrics)

Based on Medicare data, we discovered that this procedure is performed very infrequently by Orthopedic Surgery and Pediatrics. Therefore, we decided to drop this procedure. If the procedure had not been dropped, the physicians on the project believed that the value for Pediatrics should be used because it appears to be reasonable.

31603 - Tracheostomy, emergency procedure, transtracheal, in adult, for partial airway obstruction, post trauma (surveyed specialties: otolaryngology, general surgery, thoracic surgery)

At the TCG meetings, panel members for Otolaryngology explained that their performance of a tracheostomy was different from other specialties. Otolaryngologists paid more attention to the surrounding physiological structures and thought more about

the eventual reconstruction. One physician on the project agreed and felt that the intensity of the service was greater for Otolaryngology. Therefore, we decided to drop the value for Otolaryngology because there is a justifiable quality issue here. This brings up the possibility of building in a quality modifier in the RBRVS.

The value for Code 31603 is thus a weighted average of the values obtained for General Surgery and Thoracic Surgery.

44950 - Appendectomy for acute abdomen with unperforated appendicitis (surveyed specialties: family practice, general surgery)

We decided to drop the value for Family Practice because family practitioners perform this service infrequently (based on the low volume of claims submitted to Medicare - less than two percent)

45300 - Rigid sigmoidoscopy, without biopsy, in office (surveyed specialties: family practice, internal medicine, general surgery)

A weighted average was taken of the values for Family Practice and Internal Medicine; we decided to exclude the value for General Surgery. The General Surgery work value was significantly different from the values of the other specialties (approximately 25% lower). Also, the time value was different from Family Practice and Internal Medicine. These differences may be due to the fact that General Surgeons may have more

specialized equipment or better equipped offices in which to perform the procedure.

49505 - Uncomplicated indirect inguinal hernia repair, 45 year old male (surveyed specialties: general surgery, urology)

We decided to drop the value for Urology because Urologists perform this procedure infrequently (less than 2% of the claims submitted to Medicare for this procedure were from Urologists). Also, Urologists may perform this procedure differently from General Surgeons or the Urologists may be treating a special population, and thus the difference in work values may reflect a coding structure problem.

58150 - Abdominal hysterectomy for cancer in situ of cervix in 50 year old woman (surveyed specialties: family practice, general surgery, obstetrics/gynecology)

We decided to drop the value for Family Practice because this specialty performs this service infrequently (less than 2.00% of the claims submitted to Medicare for this procedure were from Family Practice). Family Practitioners may also refer the difficult cases to surgical specialists. It was noted that in some hospitals, General Surgeons are not allowed to perform hysterectomies.

This procedure was accepted as a link by the General Surgeons and the Obstetricians/Gynecologists. However, we broke

the link due to the reported differences in work. The decision was made to take a weighted average of the values.

59410 - Uncomplicated spontaneous vaginal delivery (surveyed specialties: family practice, obstetrics/gynecology)

The estimated work between the specialties were very similar but there were large differences in estimated time. The differences in time may be due to the difference between the practice of Obstetrics versus Family Practice. Obstetricians tend to spend a lot of time at the hospital because they have several hospitalized patients while Family Practitioners' practices are more office-based and they may not perform many deliveries each week. We decided to take a weighted average of the values.

67840 - Excision of 0.5 cm basal cell carcinoma on the outer 1/3 of the lower eyelid (surveyed specialties: general surgery, ophthalmology)

This may be a different service for General Surgeons than for Ophthalmologists. We suspect that general surgeons do not use this code for the service described, rather, they may use the excision codes. The decision was made to use the value for ophthalmology due to the problem with the coding.

69200 - Removal of foreign body from ear canal without general anesthesia (surveyed specialties: otolaryngology, pediatrics)

The difference in the work values may be due to the fact that Otolaryngology is more of a referral specialty. The Otolaryngologists may see the more difficult cases while the Pediatricians may see the easier ones. The age was not specified in the vignette nor was the type of foreign body. The kind of foreign body in a child's ear is more likely be different from the foreign body in an adult's ear. Hence, these are probably different services. Moreover, there are only a small number of claims for this procedure from Pediatricians. For the above reasons, we decided to drop the value for Pediatrics and use the value for Otolaryngology.

72110 - Interpretation of lumbar spine x-rays, complete radiograph exam in an adult patient with low back pain (surveyed specialties: orthopedic surgery, radiology)

and

73510 - Interpretation of hip x-rays, complete, for moderate/severe hip pain (surveyed specialties: orthopedic surgery, radiology, rheumatology)

The difference in work and time for these procedures may be due to the fact that the role of the radiologist is to read and interpret a film and make a diagnosis, while he/she is not responsible for making therapy decisions. Other specialists may interpret the film while also making therapeutic decisions. Since the vignette states "interpretation only" we decided to use the value for radiology.

76805 - Echography of the pregnant uterus, B-scan and/or real time with image documentation, complete, for questionable fetal abnormality, performance and interpretation (surveyed specialty: radiology)

76805 - Fetal ultrasound for possibility of fetal abnormality, real time B-scan with image documentation (surveyed specialty: obstetrics/gynecology)

The Obstetrician will be concerned about the management and therapy involved with this service. The Radiologist will not have the same scope of concerns. We decided to treat this service as a radiological service only and use the value given by the radiologists. The therapeutic work component performed by obstetricians is assumed to be included in their office visit.

81000 - Urinalysis with microscopic exam in office lab under your supervision, excluding collection (surveyed specialties: pediatrics, internal medicine, family practice)

There was some concern raised about the validity of these values for this laboratory service. Both the work and time estimates look very high. We question whether physicians can distinguish the work and time associated with a very brief service. Nevertheless, since there is a separate code for this service we decided to use a weighted average of the values. Since Pediatrics is not represented in the Medicare data, we decided to use population data and use 15% as the weight.

88305 - Pathologic gross and microscopic examination of a changing melanocytic lesion in a 26 year old woman (surveyed specialties: pathology, dermatology)

These appear to be different services and this may be a coding structure problem. We decided the two vignettes should not be treated as the same. The decision was made to drop the value for Dermatology and use the value for Pathology.

33512* - Redo CABG (3 arteries); first reoperation in 68 year old male, 3 year post triple vein graft procedure, patent mammary artery, ejection fraction=50%, with no complicating associated disease.

Primary triple vessel coronary artery bypass graft - CABGx3 -, 65 year old male, ejection fraction=50%, with no complicating associated disease. (both services surveyed in thoracic/cardiovascular surgery)

These differences in work reflect a problem with CPT-4 coding, as CPT-4 does not distinguish primary and repeat procedures. The decision was made to use the primary CABG to represent the code, and to identify the repeat procedure as a candidate for further investigation.

52000* - Diagnostic cystoscopy in hospital, ambulatory surgery, in male with microhematuria

and

Diagnostic cystoscopy, office procedure in male with microhematuria

Since the values for these two procedures differed very little, the decision was made to average the two values.

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* These services were never proposed as links, but still were assigned the same CPT-4 code. Responses were obtained for each service from the same specialty.

Appendix Q

CPT-4 Codes and Modifiers for which Extrapolated Work is not Reported

Appendix Q

List of Tables

Table Q.1

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties 1

Table Q.2

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties and for which further review and research is planned 3

Table Q.3

CPT-4 numbers and CPT-4 modifiers that have been judged to be obsolete according to physician reviewers in 17 specialties 6

Table Q.1

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties

CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier
12005		52277		85544	
12006		52700		85595	
12007		58210		[1]85595	-26
12014		58210		85651	
12015		58240		[1]85651	-26
12016		58240		86068	
12017		58501		86069	
12018		59400		86073	
12020		59400		86074	
12021		59420		86075	
20650		59420		86080	
20660		59430		86082	
20661		59430		86095	
20670		59521		86096	
20680		59541		86100	
20690		59561		86105	
21210		59581		86115	
21215		63075		86120	
27122		64712		86128	
27165		65810		[1]86455	
27224		66830		86490	
27254		66930		86510	
30450		66945		86540	
31395		67112		86580	
32215		67227		86585	
33020		67511		88150	
33025		69205		88311	
33100		69650		[1]88312	
33200		69666		88313	
33201		70350	-26	88314	
33407		72241		88317	
33504		72256		88318	
33504		72296		88319	
33516		74400		88342	
33528		74410		88346	
33640		74415		90292	
33643		85460		90320	
45307		85535		92018	
45332		85538		92226	
51792		85540		92265	

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Table Q.1 continued

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties

CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier
93015		94770	
93017		95030	
94010		95031	
[1]94010	-26	95032	
94150		95033	
94160		95034	
94200		95040	
94240		95041	
94240	-26	95042	
94250		95043	
94260		95050	
94350		95051	
94360		95077	
94370		95080	
94375		95081	
94375	-26	95082	
94400			
94450			
94640			
94665			
94667			
94668			
94680			
94681			
94690			
94700			
94700	-26		
94705			
94710			
94710	-26		
94715			
94720			
94725			
94750			

1 Surveyed services.

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Table Q.2

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties and for which further review and research is planned

CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier
11200		11642		31610	
11201		11643		31613	
11400		11644		31613	
11401		11646		31613	
11402		15820		31614	
11403		15820	-50	31614	
11404		15821		31614	
11406		15821	-50	31621	
11420		15822		31621	
11421		15822	-50	31621	
11422		15823		31621	
11423		15823	-50	31621	
11424		17000		32405	
11426		17100		32420	
11440		17999		33970	
11441		19260		42400	
11442		19271		42405	
11443		21250		42408	
11444		25611		42409	
11446		29909		42410	
11450		31600		42415	
11451		31600		42420	
11462		31600		42425	
11463		31601		42426	
11470		31601		42440	
11471		31601		42450	
11600		31603		59410	
11601		31603		59410	
11602		31603		59410	
11603		31603		59410	
11604		31603		65014	
11606		31603		65017	
11620		31603		65740	
11621		31603		66840	
11622		31603		66999	
11623		31605		67101	
11624		31605		70450	
11626		31605		70450	-26
11640		31610		70460	
11641		31610		70460	-26

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Table Q.2 continued

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties and for which further review and research is planned

CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier	CPT-4 Number	CPT-4 Modifier
70470		72131	-26	88155	
70470	-26	72132		88160	
70480		72132	-26	88161	
70480	-26	72133		88180	
70481		72133	-26	89051	
70481	-26	72192		90500	
70482		72192	-26	90505	
70482	-26	72193		90510	
70486		72193	-26	90515	
70486	-26	72194		90517	
70487		72194	-26	90520	
70487	-26	73200		90801	
70488		73200	-26	90830	
70488	-26	73201		90841	
70490		73201	-26	90843	
70490	-26	73202		90844	
70491		73202	-26	90853	
70491	-26	73220		90862	
70492		73700		90870	
70492	-26	73700	-26	90871	
70540		73701		90882	
71250		73701	-26	90899	
71250	-26	73702		94010	
71260		73702	-26	94010	-26
71260	-26	73720		94060	
71270		74150		95000	
71270	-26	74150	-26	95001	
72125		74160		95002	
72125	-26	74160	-26	95003	
72126		74170		95005	
72126	-26	74170	-26	95006	
72127		74181		95007	
72127	-26	85009		95011	
72128		85548		95016	
72128	-26	85585		95018	
72129		88104		95023	
72129	-26	88106		95060	
72130		88107		95120	
72130	-26	88108		95125	
72131		88140		95130	

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Table Q.2 continued

CPT-4 numbers and CPT-4 modifiers of services that have been judged to have work values which may be unreasonably high or low according to physician reviewers in 17 specialties and for which further review and research is planned

CPT-4 Number	CPT-4 Modifier
95131	
95132	
95133	
95135	
95140	
95145	
95150	
95155	
95160	
95160	
95180	
99160	
?????	
D5974	
D7240	
D9220	

Although the following CPT-4 codes are among the list of unresolved services, we extrapolated RBRVS values for these codes. We believe the extrapolated results for these services may require further scrutiny.

CPT-4 Codes:

11200	11424	11470	11624
11201	11426	11471	11626
11400	11440	11600	11640
11401	11441	11601	11641
11402	11442	11602	11642
11403	11443	11603	11643
11404	11444	11604	11644
11406	11446	11606	11646
11420	11450	11620	
11421	11451	11621	
11422	11462	11622	
11423	11463	11623	

NOTE: CPT-4 five digit codes and/or nomenclature are copyright 1987 American Medical Association.

Table Q.3

CPT-4 numbers and CPT-4 modifiers that have been judged to be obsolete according to physician reviewers in 17 specialties

CPT-4 Number	CPT-4 Modifier
33400	
66915	
67109	
67121	

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